

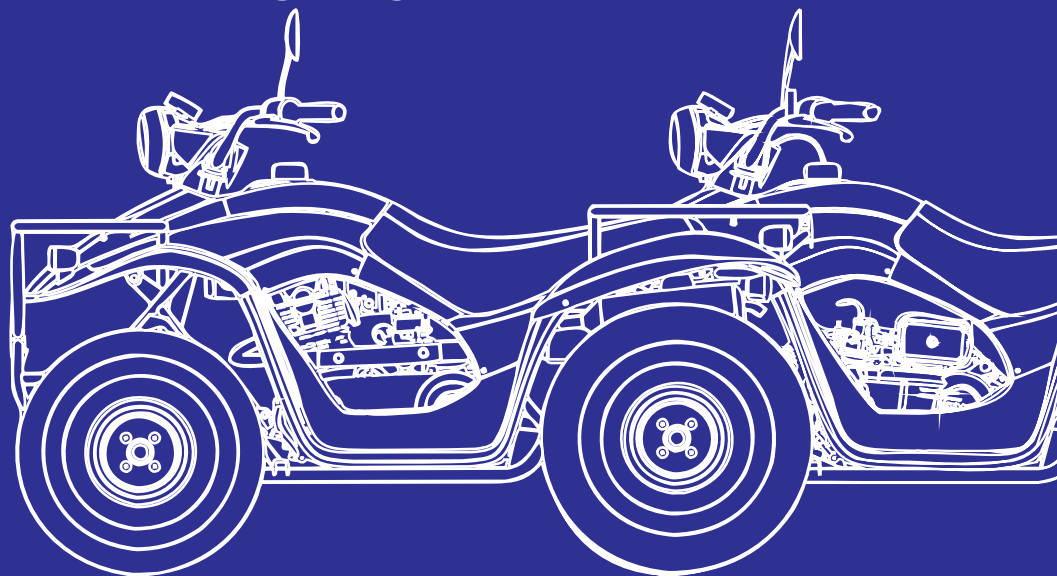


DRIVER'S MANUAL

KWANG YANG MOTOR CO.,LTD.

MX'er 150/125/50

ON-ROAD



Dear KYMCO Motorcycle Users:

Before the delivery of each new motorcycle, the fuel in carburetor is drained off to ensure the excellent performance and safety of the motorcycle. Therefore, when first starting a new motorcycle, it is normal to take 20~30 seconds. The quality of each KYMCO motorcycle is guaranteed.

Dear Users:

We greatly appreciate your patronage of KYMCO **MX'er 150/125/50**

This User's Manual describes the correct operating methods, inspection and maintenance procedures for the KYMCO **MX'er 150/125/50** in details in order to prolong the service life of motorcycle and provide you with a comfortable riding.

Please note that the information and illustrations included in this manual may be different from the motorcycle in case specifications are changed.

To enable you to have a safe and comfortable riding, we recommend you to read this manual carefully and wish you a happy riding.

- Note:
1. The information and specifications stated in this manual are for reference only and subject to change without notice.
 2. When starting the engine, the battery must be installed to facilitate starting and increase the engine performance.

IMPORTANT NOTICE

This machine is designed and manufactured for ON-ROAD use only. It is illegal and unsafe to operate this machine on any hills and rough or loose terrain.

This machine complies with all applicable ON-ROAD noise level and spark arrester laws and regulation in effect at the time of manufacture.

Please check your local riding laws and regulations before operating this machine.

IMPORTANT MANUAL INFORMATION

FAILURE TO FOLLOW THE WARNINGS CONTAINED IN THIS MANUAL CAN RESULT IN SERIOUS INJURY OR DEATH.

Particularly important information is distinguished in this manual by the following notations:



The Safety Alert Symbol means ATTENTION! BECOME! YOUR SAFETY IS INVOLVED!



Failure to follow WARNING instructions could result in severe injury or death to the machine operator, a bystander or a person inspecting the machine.



A CAUTION indicates special precautions that be taken to avoid damage to the machine.

NOTE:

A NOTE provides key information to make procedures easier or clearer.



Indicates a potential hazard that could result
in serious injury or death.

CONTENTS

LOCATION OF THE WARNING AND SPECIFICATION LABELS.....	1	CONTROL FUNCTIONS.....	13
		Main switch.....	13
		Indicator lights.....	14
		Handlebar switches.....	16
		Instruments.....	19
SAFETY INFORMATION.....	4	Starter kick lever (only MX'er 50).....	24
		Throttle lever.....	25
		Speed limiter.....	26
		Front brake lever.....	27
		Rear brake lever.....	27
		Brake pedal (only MX'er 150/125).....	28
		Parking brake.....	28
		Locking steering (only MX'er 150/125)...	30
		Drive select lever (only MX'er 150/125)...	31
DESCRIPTION AND MACHINE IDENTIFICATION.....	10	Fuel tank cap.....	31

Fuel cock.....	32	Starting a warm engine (only MX'er 150/125).....	46
Starter choke (only MX'er 150/125).....	33	Warming up (only MX'er 150/125).....	46
Seat.....	33	Starting a cold engine (only MX'er 50)...	47
PRE-OPERATION CHECKS.....	35	Use the electric starter button (only MX'er 50).....	47
Front, rear brake and brake pedal.....	36	Start with the kick lever (only MX'er 50)...	48
Fuel	37	Drive select lever operation and reverse driving (only MX'er 150/125).....	49
Engine and transmission oil	39	Engine break-in.....	51
Chain	40	Parking	52
Throttle lever.....	40	Parking on a slope	53
Fittings and fasteners.....	40	Accessories and loading.....	54
Lights	40		
Switches	40		
Battery	40		
Tires	41	Riding Your ATV	59
How to measure tire pressure	42	Getting to know your ATV	60
Tire wear limit	43	Ride with care and good judgement.....	61
OPERATION.....	44	Turning your ATV	74
Starting a cold engine (only MX'er 150/125).....	44	Climbing up slope.....	76

Riding down slope.....	81	Rear brake adjustment (only MX'er 150/125).....	104
What to do if	83	Brake pedal adjustment (only MX'er 150/125).....	105
What to do	83	Drive chain slack check.....	108
PERIODIC MAINTENANCE AND ADJUSTMENT.....	84	Drive chain slack adjustment.....	108
Owner's manual and tool kit.....	84	Drive chain cleaning and lubrication.....	110
Periodic maintenance/Lubrication.....	86	Draining the V-belt compartment.....	111
Engine oil (only MX'er 150/125).....	88	Cable inspection and lubrication.....	111
2-stroke motor oil (only MX'er 50).....	90	Brake lever lubrication.....	112
Transmission oil.....	92	Knuckle shaft, lower arms and steering shaft lubrication.....	112
Spark plug inspection.....	94	Wheel removal.....	113
Air filter cleaning.....	95	Wheel installation.....	113
Idle speed adjustment	98	Battery	114
Valve clearance adjustment (only MX'er 150/125).....	99	Fuse replacement.....	116
Throttle lever adjustment.....	100	Replacing the headlight bulb.....	117
Front and rear brake shoe inspection.....	101	Headlight beam adjustment.....	118
Brake fluid inspection (disk brake)	101	Troubleshooting	119
Front brake lever free play adjustment.....	102	Troubleshooting chart.....	120

CLEANING AND STORAGE.....121

 A. Cleaning121

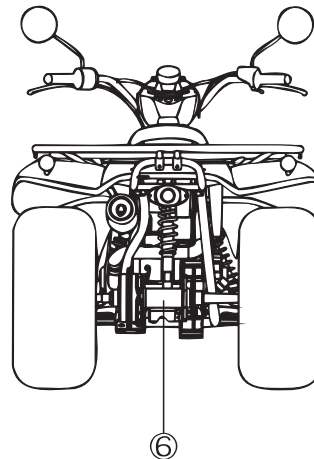
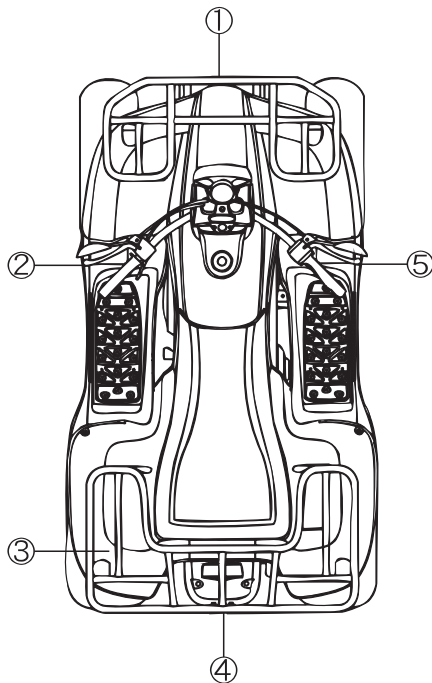
 B. Storage123

SPECIFICATIONS.....124

NOISE REGULATION.....128

MAINTENANCE RECORD.....129

LOCATION OF THE WARNING AND SPECIFICATION LABELS



Read and understand all of the labels on your machine. They contain important information for safe and proper operation of your ATV.

Never remove any labels from your ATV. If a label becomes difficult to read or comes off, a replacement label is available from your KYMCO dealer.

①



CAUTION

- Never carry passenger on this carrier.
- Maximum load : 15 Kg (33 lbs)

②



WARNING

Improper ATV use can result in SEVERE INJURY or DEATH.



ALWAYS USE AN
APPROVED HELMET AND
PROTECTIVE GEAR



NEVER USE WITH
ALCOHOL OR DRUGS

NEVER operate :

- Without proper training or instruction.
- At speeds too fast for your skills or the conditions.

Do not operate the vehicle after consuming ALCOHOL OR DRUGS.

ALWAYS :

- Use proper riding techniques to avoid vehicle overturns on hills and rough terrain and in turns.
- For your safety, wear gear to include helmet gloves and foot protection.
- Gasoline is flammable shut off engine, avoid sparks and open flame when refueling.

READ OWNER'S MANUAL, FOLLOW ALL INSTRUCTIONS AND WARNINGS.

③

**WARNING**

**IMPROPER TIRE PRESSURE OR OVERLOADING
CAN CAUSE LOSS OF CONTROL.
LOSS OF CONTROL CAN RESULT IN SEVERE
INJURY OR DEATH.**

OPERATING TIRE PRESSURE : Set with tires cold

Recommended :

FRONT : 30~35 kpa, (0.3~0.35 kgf/cm²), 4.2~5.0 psi

REAR : 30~35 kpa, (0.3~0.35 kgf/cm²), 4.2~5.0 psi

- Never set tire pressure below minimum.

⑤

**WARNING**

Operating this ATV if you are under the age of 16 increases your chance of severe injury or death.

NEVER operate this ATV if you are under age 16.

④

**CAUTION**

- Never carry passenger on this carrier.
- Maximum load : 20 Kg (44 lbs)

⑥ (Only MX'er 150/125)

**WARNING**

**Exceeding vehicle towing
limit could lead to an
Accident. Reduce speed
When towing a trailer.**

**Read owner's manual for
details.**

**MAXIMUM TOWING CAPACITY
100kg (220 lbs)**



SAFETY INFORMATION

AN ATV IS NOT A TOY AND CAN BE HAZARDOUS TO OPERATE. An ATV handles differently from other vehicles including motorcycles and cars. A collision can occur quickly, even during routine maneuvers, if you fail to take proper pre-cautions.

SEVERE INJURY OR DEATH can result if you do not follow these instructions:

- Read this manual and all labels carefully and follow the operating procedures described.
- Never operate an ATV without proper training or instruction. **Take a Training Course.**

Beginners should receive training from a certified instructor. Contact an authorized ATV dealer to find out about the training courses nearest you.

- Always follow the age recommendation:
 - A child under 16 years old should never operate an ATV with engine size greater than 90cc.
- Never allow a child under age 16 to operate an ATV without adult supervision, and never allow continued use of an ATV by a child if he or she does not have the abilities to operate it safely.
- Never carry a passenger on an ATV.

- Never operate an ATV without wearing an approved motorcycle helmet that fits properly. You should also wear eye protection (goggles or face shield), gloves, boots, long-sleeved shirt or jacket, and long pants.
- Never consume alcohol or drugs before or while operating this ATV.
- Never operate at speeds too fast for your skills or the conditions. Always go at a speed that is proper for the terrain, visibility and operating conditions, and your experience.
- Never attempt wheel, jump, or other stunt.
- Always inspect your ATV each time you use it to make sure it is in safe operating condition. Always follow the inspection and maintenance procedures and schedules described in this manual.
- Always keep both hands on the handlebars and both feet on the footboards of the ATV during operation.
- Always go slowly and be extra careful when operating on unfamiliar terrain. Always be alert to changing terrain conditions when operating the ATV.

- Never operate on excessively rough, slippery or loose terrain.
- Always follow proper procedures for turning as described in this manual. Practice turning at low speeds before attempting to turn at faster speeds. Do not turn at excessive speed.
- Never operate the ATV on hills.
- Always follow proper procedures for climbing slopes as described in this manual. Check the terrain carefully before you start up any slope. Shift your weight forward. Never open the throttle suddenly. Never go over the top of a slope at high speed.
- Always follow proper procedures for going down slopes and for braking on slopes as described in this manual. Check the terrain carefully before you start down any slope. Shift your weight backward. Never go down a slope at high speed. Avoid going down slope at an angle that would cause the vehicle to lean sharply to one side. Go straight down the slope where possible.
- Never attempt to turn the ATV around on any slope until you have mastered the turning technique described in this manual on level ground. Avoid crossing the side of a steep slope if possible.

- Always check for obstacles before operating in a new area. Never attempt to operate over large obstacles, such as large rocks or fallen trees. Always follow proper procedures when operating over obstacles as described in this manual.
- Always be careful when skidding or sliding. Learn to safely control skidding or sliding by practicing at low speeds and on level, smooth terrain. On extremely slippery surfaces, such as ice, go slowly and be very cautious in order to reduce the chance of skidding or sliding out of control.
- Never operate an ATV in fast flowing water or in water deeper than that recommended in this manual. Remember that wet brakes may have reduced stopping ability. Test your brakes after leaving water. If necessary, apply them several times to let friction dry out the linings.
- Always use the size and type tires specified in this manual. Always maintain proper tire pressure as described in this manual.
- Never modify an ATV through improper installation or use of accessories.
- Never exceed the stated load capacity for an ATV. Cargo should be properly distributed and securely attached. Reduce speed and follow instructions in this manual for carrying cargo. Allow greater distance for braking.



WARNING

POTENTIAL HAZARD

Improper handling of gasoline.

WHAT CAN HAPPEN

Gasoline can catch fire and you could be burned.

HOW TO AVOID THE HAZARD

Always turn off the engine when refueling.

Do not refuel right after the engine has been running and is still very hot.

Do not spill gasoline on the engine or exhaust pipe/muffler when refueling.

Never refuel while smoking, or while in the vicinity of sparks, open flames, or other sources of ignition such as the pilot lights of water heaters and clothes dryers.

When transporting the machine in another vehicle, be sure it is kept upright and that the fuel cock is in the "OFF" position.

Otherwise, fuel may leak out of the carburetor or fuel tank.

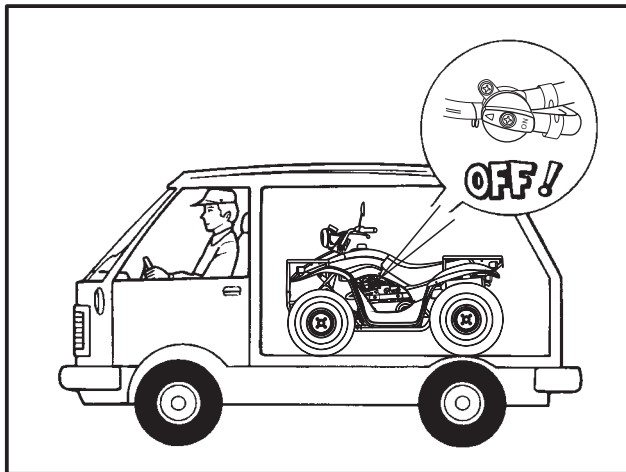
WHAT CAN HAPPEN

Gasoline is poisonous and can cause injuries.

HOW TO AVOID THE HAZARD

If you should swallow some gasoline or inhale a lot of gasoline vapor, or get some gasoline in your eyes, see your doctor immediately.

If gasoline spills on your skin, wash with soap and water. If gasoline spills on your clothing, change your clothes.



WARNING

POTENTIAL HAZARD

Starting or running the engine in a closed area.

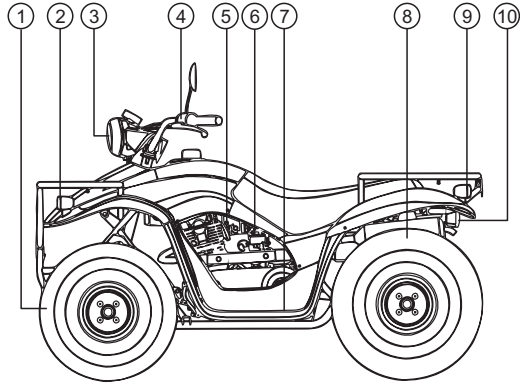
WHAT CAN HAPPEN

Exhaust fumes are poisonous and may cause loss of consciousness and death within a short time.

HOW TO AVOID THE HAZARD

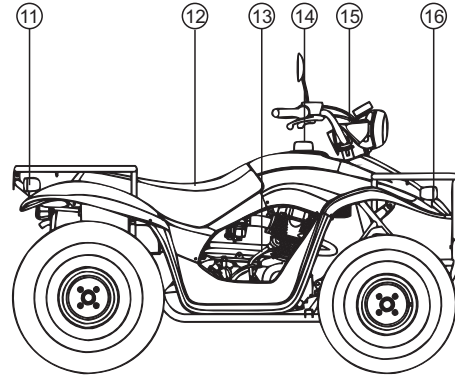
Always operate your machine in an area with adequate ventilation.

DESCRIPTION AND MACHINE IDENTIFICATION

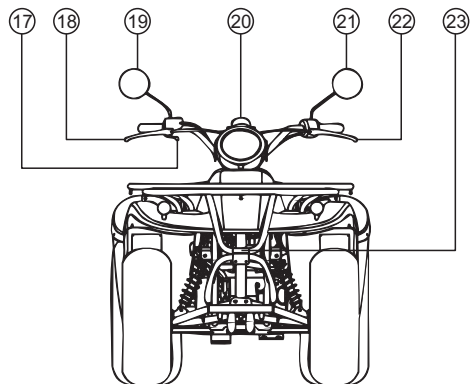


1. Front wheel
2. L. Front turn signal light
3. Headlight
4. Starter button
Hazard switch (Only
MX'er 150/125)
Headlight dimmer
switch
Turn signal switch
Horn button

5. Starter choke (Only
MX'er 150/125)
6. Fuel cock
7. Footboard
8. Rear wheel
9. L. Rear turn signal light
10. Taillight/Stoplight

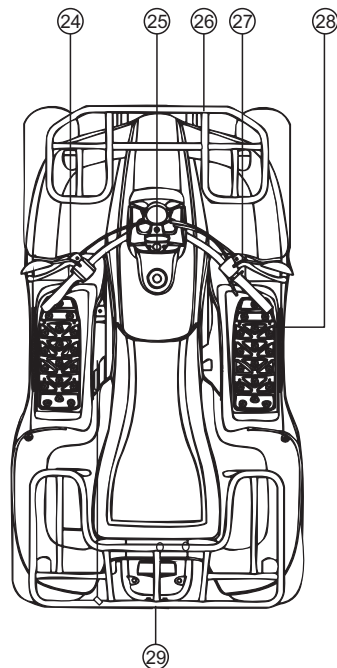


11. R. Rear turn signal light
12. Seat
13. Drive select lever (only
MX'er 150/125)
14. Fuel tank cap
15. Indicator light
16. R. Front turn signal light

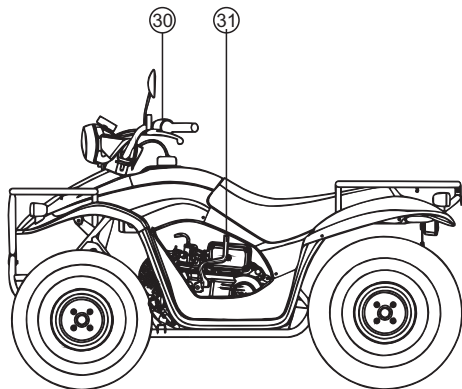


- 17. Throttle lever
- 18. Front Brake lever
- 19. R. Back mirror
- 20. Instruments
- 21. L. Back mirror
- 22. Rear Brake lever
- 23. Steering handlebar lock
(Only MX'er 150/125)
- 24. Rear parking brake
(Not all type)

- 25. Main switch
- 26. Front carrier
- 27. Front parking brake
- 28. Brake pedal(Only
MX'er 150/125)
- 29. Rear carrier



NOTE:
The machine you have purchased may differ slightly from those shown in the figures of this manual.



30. Engine stop switch (Only MX'er 50)

31. Starter kick lever (Only MX'er 50)

NOTE:

The machine you have purchased may differ slightly from those shown in the figures of this manual.

CONTROL FUNCTIONS



WARNING

Indicates a potential hazard that could result in serious injury or death.

Main switch

Functions of the respective switch positions are as follows:

" . ":

Engine can be started only at this position and the headlight and taillight come on when the light switch is on.

"OFF":

All electrical circuits are switched off. The key can be removed in this position.



Indicator lights



1. Main switch
2. L. turn signal indicator light "↵"
3. R. turn signal indicator light "↶"
4. High beam indicator light "≡D"
5. Neutral indicator light "N"
(Only MX'er 150/125)
6. Reverse indicator light "R"
(only MX'er 150/125)
7. Hazard indicator light "↵ ↶"
(only MX'er 150/125)

Turn signal indicator light "↵" "↶"

When the turn signal switch is operated, this indicator light will wink and the buzzer will sound.

High beam indicator light "≡D"

This indicator light will come on when the dimmer switch is switched to high beam and will go out when switched to low beam.

Neutral indicator light "N" (only MX'er 150/125)

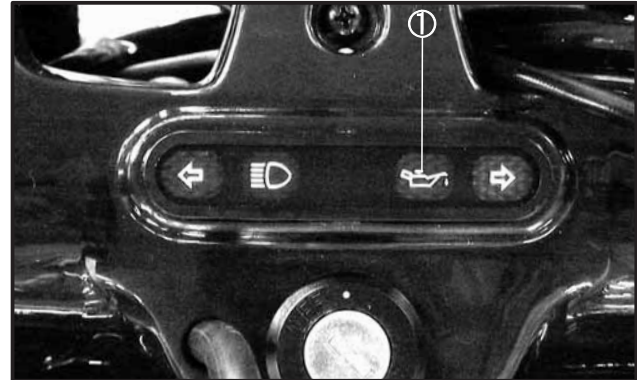
This indicator light comes on when the transmission is neutral.

Reverse indicator light "R" (only MX'er 150/125)

This indicator light comes on when the transmission is in reverse.

Hazard indicator light "↔ ↔" (only MX'er 150/125)

When the hazard switch is operated and turn signal light is off, this indicator light will wink.

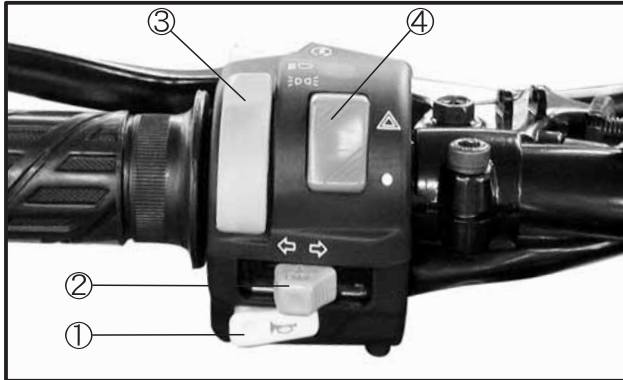


1. Motor oil indicator light (Only MX'er 50)

Motor oil indicator light "🛢️" (Only MX'er 50)

When the ignition switch is "ON", it is normal if the motor oil indicator light comes on for several seconds and then goes out, If the light does not go out , it means that the motor oil is insufficient. Please refill with the specified motor oil.

Handlebar switches



1. Horn button
2. Turn signal switch
3. Lights switch
4. Hazard switch (Only MX'er 150/125)

Horn button

When the main switch is in the " · " position, push the horn button and it will sound.

Turn signal switch

Use the turn signal switch while turning to another direction or shifting to another lane. The turn signal light will wink when the switch is operated,

"↶" For turning to the "left".

"↷" For turning to the "right".

The instrument turn signal indicator light will also wink when the switch is operated.

Push the switch and it will release.

CAUTION:

- The turn signal light will not release automatically. Be sure to reset it after use; otherwise it may affect the traffic safety.
- The turn signal switch does not work when the main switch is "OFF".

Light switch

Turn the switch to the "☰D" position to switch on the low beam and the taillight.

Turn the switch to the "☷D" position to switch on the high beam and the taillight.

Turn the switch to the "⋈" position to switch on the position light.

NOTE:

The headlight and the taillight can be turned on only when the main switch is in the " . " position. **(MX'er 150/125)**

NOTE:

The headlight and the taillight can be turned on only when the engine is starting. **(MX'er 50)**

Hazard switch (Only MX'er 150/125)

"▲" At this position, the front and rear right and left turn signal lights wink together.

"●" At this position, the front and rear right and left turn signal lights go out together.

CAUTION:

- Turn on this switch when parking or there is a special condition.
- After the hazard switch is turned on, it will not reset automatically. Be sure to reset it after use to avoid affecting the traffic safety.
- When the signal lights are winking, the hazard switch does not work.



1. Engine stop switch (Only MX'er 50)

Engine stop switch "C" "X" (Only MX'er 50)

Make sure that the engine stop switch is in the "C" position. The engine stop switch controls ignition and can be used at all times to stop the engine, especially in an emergency. The engine will not start or run when the engine stop switch is turned to "X".

Start switch "S"

The starter motor cranks the engine when this switch is pushed.



1. Start switch

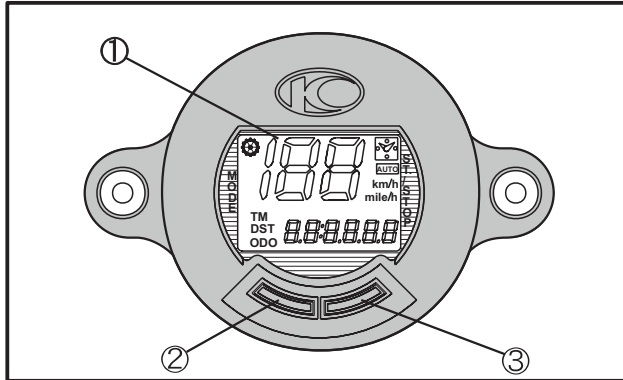
CAUTION:

See starting instructions prior to starting engine (see page 44 for details).

NOTE:

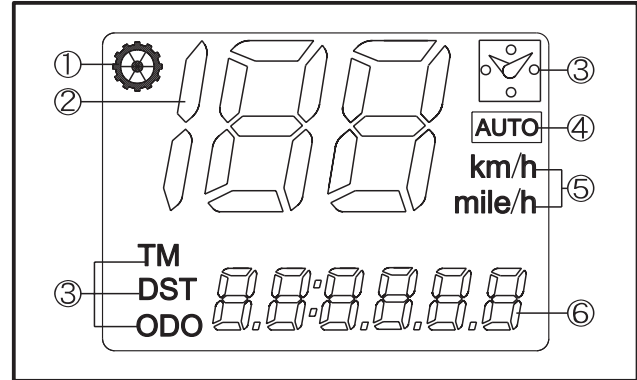
If the starter switch is pushed with the main switch and neutral indicator light "ON", the engine will be started. (MX'er 150/125) The engine stop switch at "X", the starter motor will be activated but the engine will not start. To start the engine, be sure to position the engine stop switch at "C". (Only MX'er 50)

Instruments



1. Display
2. MODE button
3. ST./STOP button

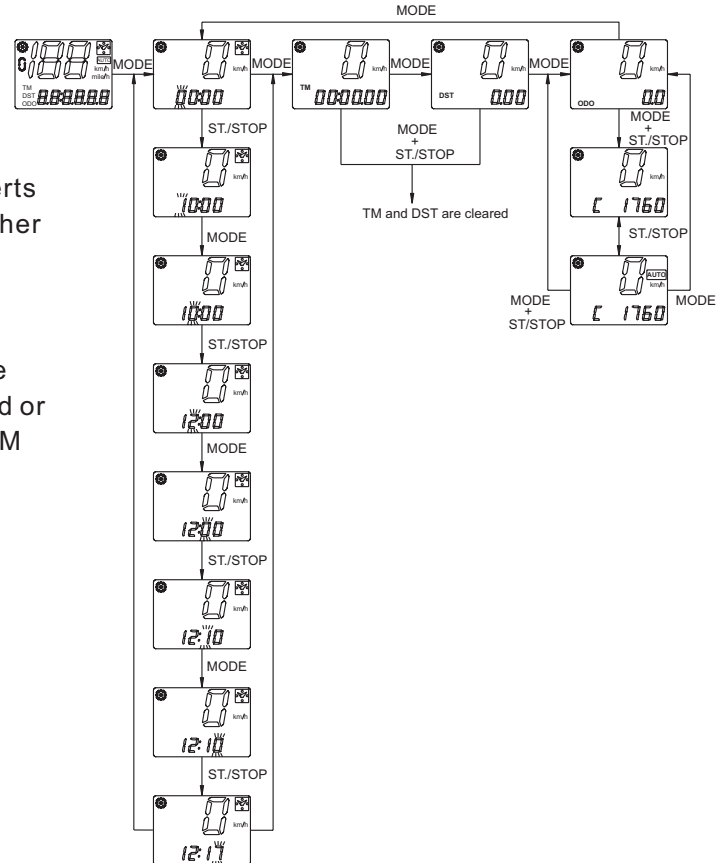
Display



1. TM start symbol
2. Bar-graph speed symbol
3. Mode symbol
4. Auto (automatic start/stop) mode symbol
5. Distance scale symbol
6. Data display (TM, DST, ODO, CLOCK)

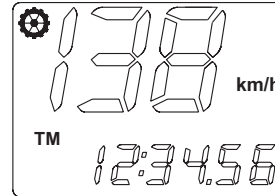
1. Button function

- **MODE Button:** Each press of button converts the screen to display will be changed to other functions.
(CLOCK→TM→DST→ODO→CLOCK)
- **ST./STOP Button:** When this button was pressed, measurement of the trip distance and elapsed time is simultaneously started or stopped. While the unit is operating, the TM symbol flashes.
- **MODE+ST./STOP Button:** When the mode button and ST./STOP button are pressed simultaneously, DST, TM are cleared.

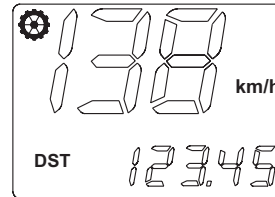


2. Function

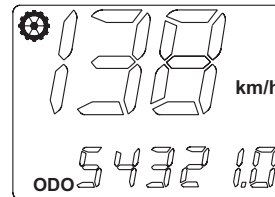
- Speed: Current speed is displayed continuously when the motor is in motion.
- TM: Elapsed time is measured from the starting point of a trip.



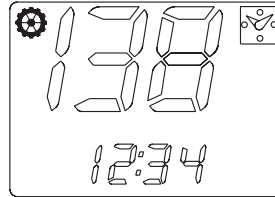
- DST: Trip distance is measured since the time of the last reset.



- ODO: Total distance: Mileage is continuously measured accumulated and displayed until the battery wears down.

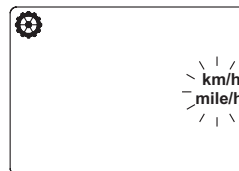


- CLOCK: The 24HR clock always displayed the current time on the screen.

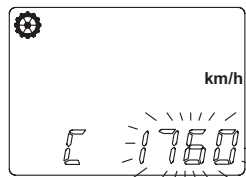


3. Default setting or resetting the unit

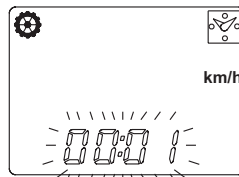
- When the MODE button and ST./STOP button are pressed simultaneously and press the ST./STOP button. The indicator on the display will change between km/h & mile/h.



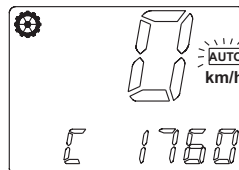
- Press the MODE button and press the ST./STOP button to setting wheel circumference, the body to set wheel circumference is 1760mm



- Press the MODE button and press the ST./STOP button to setting clock.

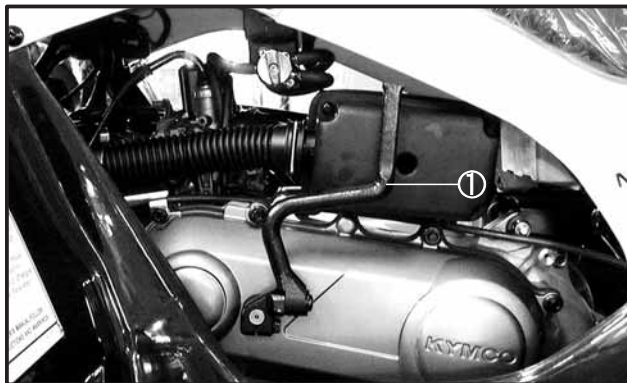


- When the MODE button and ST./STOP button are pressed simultaneously and press the ST./STOP button to setting auto symbol. ("ODO" Mode)



Starter kick lever (only MX'er 50)

The kick cranks the engine when this lever is pushed.



1. Starter kick lever (only MX'er 50)

CAUTION:

See starting instructions prior to starting engine (see page 48 for details).

NOTE:

If the starter kick lever is pushed with the main switch at "." position and the engine stop switch (Only MX'er 50) at "~~⊗~~", the engine will not start. To start the engine, be sure to position the engine stop switch at "⊙".

Throttle lever

Once the engine is running, movement of the throttle lever will increase the engine speed. Regulate the speed of the machine by varying the throttle position. Because the throttle is spring-loaded, the machine will decelerate, and the engine will return to an idle any time the hand is removed from the throttle lever.



1. Throttle lever

Before starting the engine, check the throttle to be sure it is operating smoothly. Make sure it returns to the idle position as soon as the lever is released.

WARNING

POTENTIAL HAZARD

Malfunction of throttle.

WHAT CAN HAPPEN

The throttle could be hard to operate, making it difficult to speed up or slow down when you need to. This could cause an accident.

HOW TO AVOID THE HAZARD

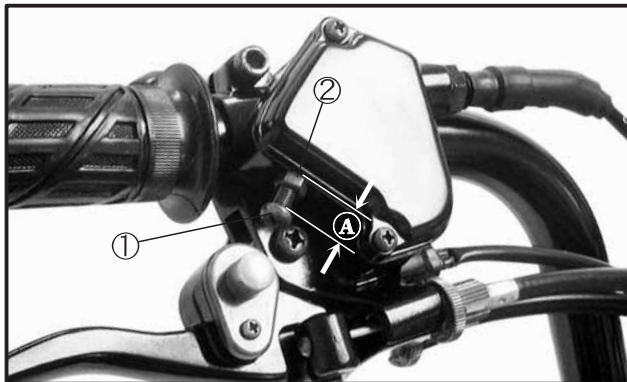
Check the operation of the throttle lever before you start the engine. If it does not work smoothly, check for the cause.

Correct the problem before riding the ATV.

Consult a KYMCO dealer if you can't find or solve the problem yourself.

Speed limiter

The speed limiter keeps the throttle from fully opening, even when the throttle lever is pushed to the maximum. Screwing in the adjuster limits the maximum engine power available and decreases the maximum speed of the ATV.



1. Adjuster

2. Locknut

A. 15mm(0.6in)

WARNING

POTENTIAL HAZARD

Improper adjustment of the speed limiter and throttle.

WHAT CAN HAPPEN

The throttle cable could be damaged. Improper throttle operation could result. You could lose control, have an accident or be injured.

HOW TO AVOID THE HAZARD

Do not turn the speed adjuster out more than 15 mm (0.6 in). Always make sure the throttle lever free play is adjusted to 1.0~4.0 mm (0.04~0.16 in). See page 100.

Front Brake lever

The front brake lever is located on the right handlebar. Pull it toward the handlebar to apply the front brake.



1. Front brake lever

Rear brake lever

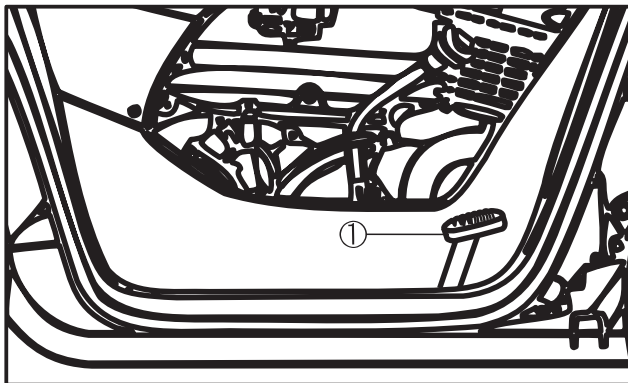
The rear brake lever is located on the left handlebar. Pull it toward the handlebar to apply the rear brake.



1. Rear brake lever

Brake pedal (only MX'er 150/125)

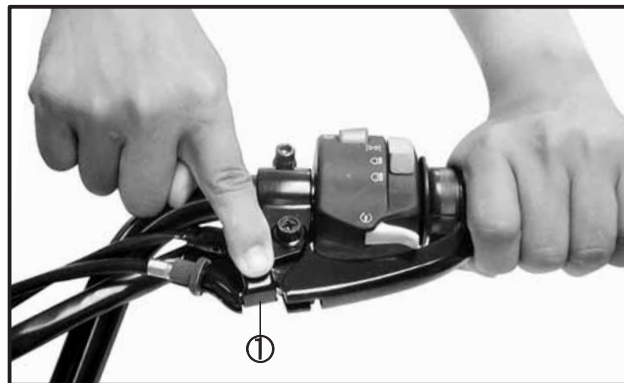
The brake pedal is located on the right footboard. Push it to apply the rear and front brake.



1. Brake pedal

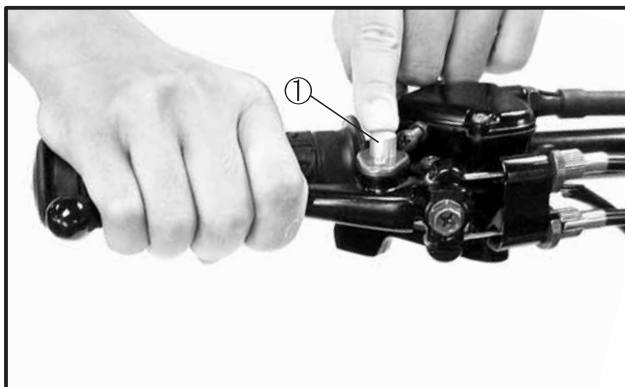
Parking brake

Use the parking brake when you have to start the engine or park the machine, especially on a slope. Apply the rear brake lever and push down the lock plate (not all type) to apply the parking brake. Squeeze the rear brake lever to release the parking brake.



1. Rear brake lock plate (not all type)

Use the parking brake when you have to start the engine or park the machine, especially on a slope. Apply the front brake lever and push down the lock pin to apply the parking brake. Squeeze the front brake lever to release the parking brake.



1. Front brake lock pin

WARNING

POTENTIAL HAZARD

Improper use of the parking brake.

WHAT CAN HAPPEN

The ATV could start moving unexpectedly if the parking brake is not applied before starting the engine. This could cause loss of control or a collision.

The brake could overheat if you ride the ATV without releasing the parking brake. You could lose braking performance which could cause an accident. You could also wear out the brakes prematurely.

HOW TO AVOID THE HAZARD

Always set the parking brake before starting the engine.

Always be sure you have released the parking brake before you begin to ride.

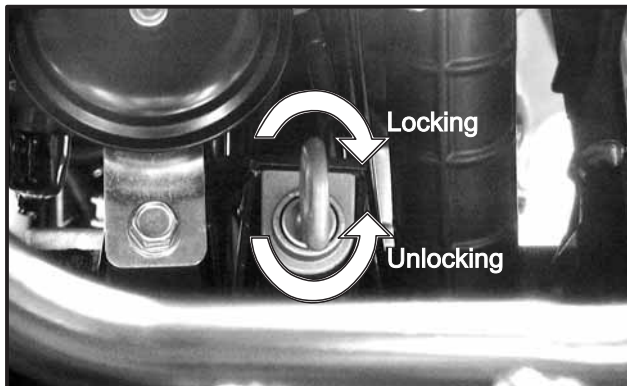
Locking steering (only MX'er 150/125)

Turn the steering handlebar left to full and turn the key right, the steering handlebar is locked.

The key can be taken out.

Turn the key left, the steering handlebar is released automatically.

The key can be taken out.



WARNING

POTENTIAL HAZARD

Improper use of the locking steering.

WHAT CAN HAPPEN

The ATV could cause loss of control or overturn.

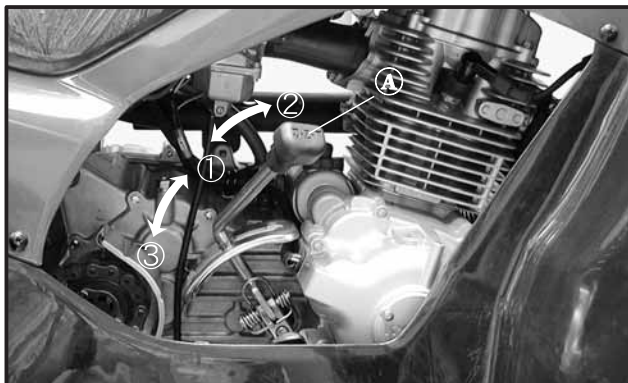
HOW TO AVOID THE HAZARD

Always be sure you have released the locking steering handlebar before you begin to ride.

Never lock the steering handlebar, when the engine is starting.

Drive select lever (only MX'er 150/125)

The drive select lever is used for driving the machine either forward or in reverse. Refer to page 49 for drive select lever operation.



A. Drive select lever

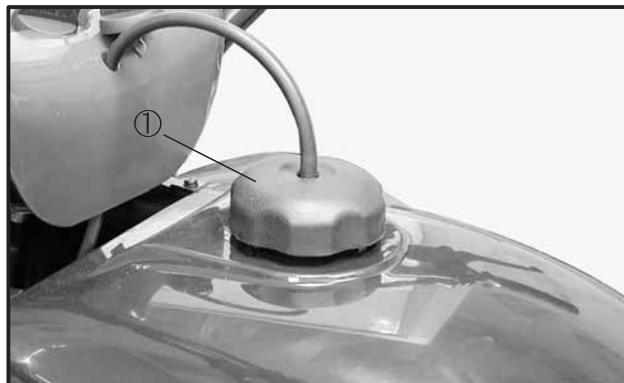
2. For forward drive

1. Neutral

3. For reverse drive

Fuel tank cap

Remove the fuel tank cap by turning it counterclockwise.



1. Fuel tank cap

Fuel cock

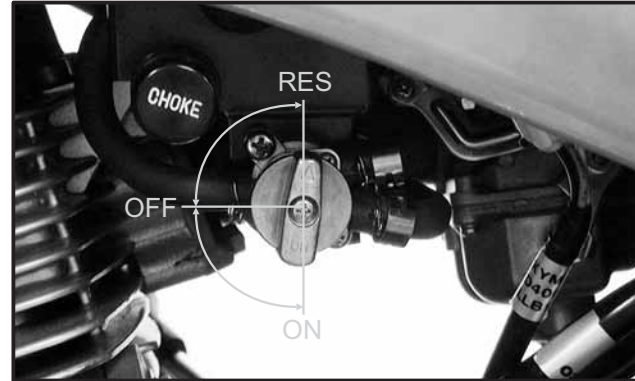
The fuel cock supplies fuel from the fuel tank to the carburetor.

The fuel cock has three positions.

OFF: With the lever in this position fuel will not flow. Always turn the lever to this position when the engine is not running.

ON : With the lever in this position, fuel flows to the carburetor. Normal riding is done with the lever in this position.

RES: This indicates reserve. If you run out of fuel while riding, turn the lever to this position. **THEN FILL THE FUEL TANK AT THE FIRST OPPORTUNITY.** After refueling, return the fuel cock lever to the "ON" position.

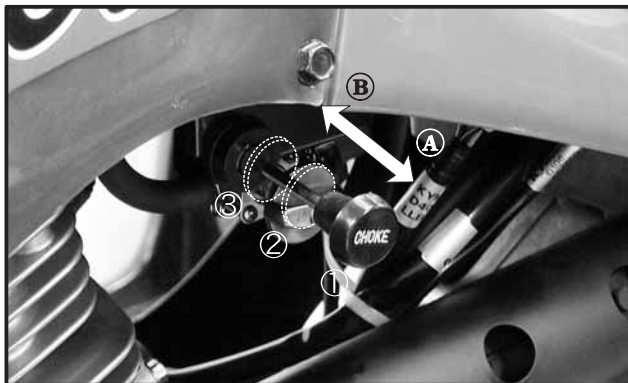


Starter choke (only MX'er 150/125)

Starting a cold engine requires a richer air-fuel mixture. A separate starter circuit supplies this mixture.

Move in direction **A** to turn on the starter (choke).

Move in direction **B** to turn off the starter (choke).



1. Fully open

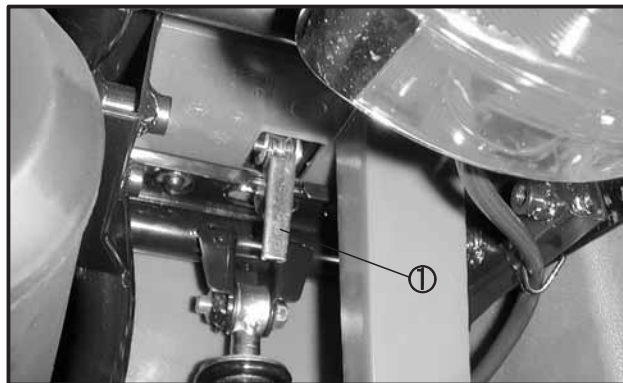
2. Half open

3. Closed

A. Starter (choke)

Seat

To remove the seat, pull the seat lock lever upward and pull up the seat the rear.

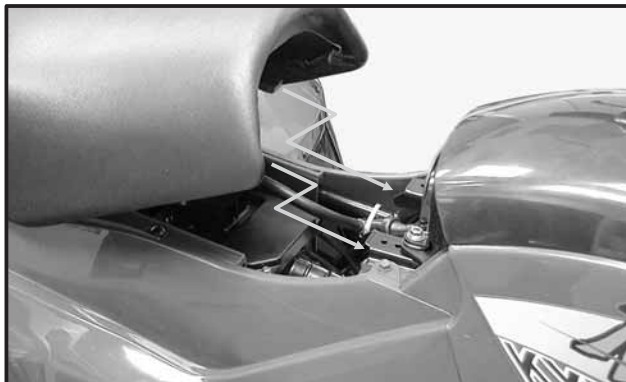


1. Seat lock lever

To install the seat, insert the projections on the front of the seat into the seat holders and push down on the seat at the rear.

NOTE:

Make sure that the seat is securely fitted.



PRE-OPERATION CHECKS

Before using this machine, check the following points:

ITEM	ROUTINE	PAGE
Brake	<ul style="list-style-type: none"> • Check operation, condition, free play and brake fluid. • Adjust if necessary. 	36~37, 101~107
Fuel	<ul style="list-style-type: none"> • Check fuel level. • Fill with fuel if necessary. 	37~38
Engine oil and Transmission oil	<ul style="list-style-type: none"> • Check oil level (MX'er 150/125). • Check motor oil indicator light (MX'er 50). • Fill with oil if necessary. 	39, 88~93
Drive chain	<ul style="list-style-type: none"> • Check chain slack and condition. • Adjust if necessary. 	40, 108~110
Throttle	<ul style="list-style-type: none"> • Check for proper throttle cable operation. 	40
Wheels and tires	<ul style="list-style-type: none"> • Check tire pressure, wear and damage. 	41~43, 113
Fittings and fasteners	<ul style="list-style-type: none"> • Check all fitting and fasteners. 	40
Battery	<ul style="list-style-type: none"> • Check fluid level if necessary. • Fill with distilled water if necessary. 	40, 114~116
Lights	<ul style="list-style-type: none"> • Check for proper operation. 	40, 117~118



WARNING

POTENTIAL HAZARD

**Failure to inspect the ATV before operating.
Failure to properly maintain the ATV.**

WHAT CAN HAPPEN

**Increases the possibility of an accident or
equipment damage.**

HOW TO AVOID THE HAZARD

**Always inspect your ATV each time you use
it to make sure the ATV is in safe operating
condition.**

**Always follow the inspection and
maintenance procedures and schedules
described in the Owner's Manual.**

Front, rear brakes and brake pedal

1. Brake levers and pedal

Check for correct free play in the brake levers.
If the free play is incorrect, adjust it. (See
pages 102~107.)

Check operation of the levers and the pedal.
They should move smoothly and there should
be a firm feeling when the brake is applied. If
not, have the machine inspected by a KYMCO
dealer.

2.

Brake operation

Test the brakes at slow speed after starting
out to make sure they are working properly. If
the brakes do not provide proper braking
performance, inspect the brakes for wear.
(See page 101.)



WARNING

POTENTIAL HAZARD

Riding with improperly operating brakes.

WHAT CAN HAPPEN

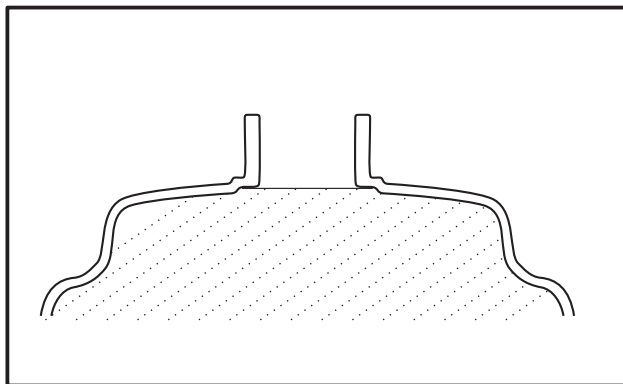
You could lose braking ability, which could lead to an accident.

HOW TO AVOID THE HAZARD

Always check the brakes at the start of every ride. Do not ride the ATV if you find any problem with the brakes. If a problem cannot be corrected by the adjustment procedures provided in this manual, have the ATV inspected by a KYMCO dealer.

Fuel

Make sure there is sufficient gasoline in the



1. Fuel level

Recommended fuel:

UNLEADED FUEL

Fuel tank capacity:

Total: 8.1L (1.74 Imp gal, 2.08 US gal)

Reserve: 1.0L (0.22 Imp gal, 0.26 US gal)

Your KYMCO engine has been designed to use regular unleaded gasoline with a pump octane number ($[R+M]/2$) of 86 or higher, or research octane number of 91 or higher. If knocking or pinging occurs, use a different brand of gasoline or premium unleaded fuel. Unleaded fuel will give you longer spark plug life and reduced maintenance cost.



WARNING

POTENTIAL HAZARD

Improper care when refueling.

WHAT CAN HAPPEN

Fuel can spill, which can cause a fire and severe injury.

Fuel expands when it heats up. If the fuel tank is overfilled, fuel could spill out due to heat from the engine.

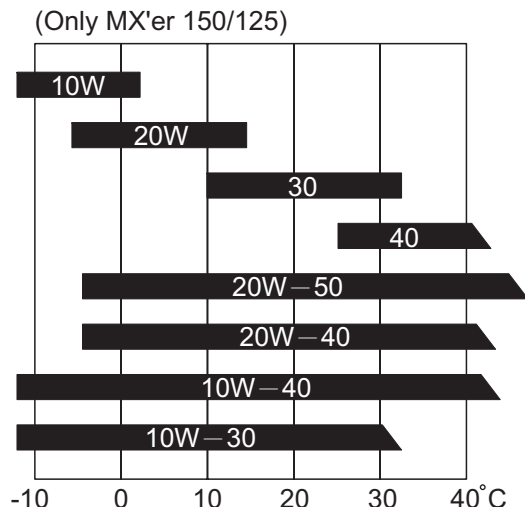
HOW TO AVOID THE HAZARD

Do not overfill the fuel tank. Be careful not to spill fuel, especially on the engine or exhaust pipe. Wipe up any spilled fuel immediately. Be sure the fuel tank cap is closed securely.

Do not refuel right after the engine has been running and is still very hot.

Engine and transmission oil

Make sure the engine and transmission oil at the specified level. Add oil as necessary. (See page 88.)



CAUTION:

Be sure to use motor oils that do not contain anti-friction modifiers. Passenger car motor oils (often labeled "Energy Conserving") contain anti-friction additives which will cause clutch and/or starter clutch slippage, resulting in reduced component life and poor engine performance.

Oil quantity:

Engine oil (only MX'er 150/125):

Periodic oil change:

0.9L

Total amount:

1.0L

2-stroke motor oil (only MX'er 50):

Total amount:

1.0L over

Transmission oil:

Total amount:

0.4L (MX'er 150/125)

0.12L (MX'er 50)

Chain

Check the general condition of the chain and check the chain slack before every ride.

Lubricate and adjust the chain as necessary.
(See pages 108~110 for details.)

Throttle lever

Check to see that the throttle lever operates correctly. It must open smoothly and spring back to idle position when released. Repair as necessary for proper operation.

Fittings and fasteners

Always check the tightness of chassis fittings and fasteners before a ride. Take the machine to a KYMCO dealer or refer to the Service Manual for correct tightening torque.

Lights

Check the headlight, signal light, taillight and hazard light to make sure they are in working condition. Repair as necessary for proper operation.

Switches

Check the operation of the headlight switch and any other switches.
Repair as necessary for proper operation.

Battery

Check fluid level and fill if necessary. Use only distilled water if refilling is necessary.
(See pages 114~116.)

Tires



WARNING

POTENTIAL HAZARD

Operating this ATV with improper tires, or with improper or uneven tire pressure.

WHAT CAN HAPPEN

Use of improper tires on this ATV, or operation of this ATV with improper or uneven tire pressure, may cause loss of control, increasing your risk of accident.

HOW TO AVOID THE HAZARD

1. The tires listed below have been approved by Kwang Yang Motor Co., Ltd. for this model. Other tire combinations are not recommended.

	Size	Type
Front	20*7-8	TUBELESS
Rear	22*10-8	TUBELESS

2. The tires should be set to the recommended pressure:

- Recommended tire pressure
Front: 30~35kpa, (0.3~0.35kgf/cm²),
4.2~5.0psi
Rear: 30~35kpa, (0.3~0.35kgf/cm²),
4.2~5.0psi
- Check and adjust tire pressures when the tires are cold.
- Tire pressures must be equal on both sides.

3. Never set tire pressure below minimum.

4.Higher pressures may cause the tire to burst. Inflate the tires very slowly and carefully. Fast inflation could cause the tire to burst.

How to measure tire pressure

Use the low-pressure tire gauge.

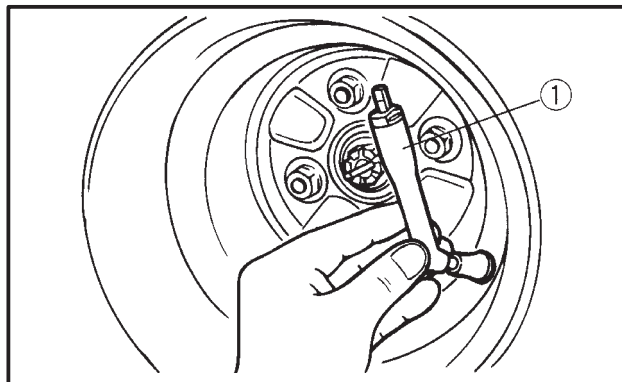
NOTE:

The low-pressure tire gauge is included as standard equipment. Make two measurements of the tire pressure and use the second reading. Dust or dirt in the gauge could cause the first reading to be incorrect.

Set pressure tires cold.

Set tire pressures to the following

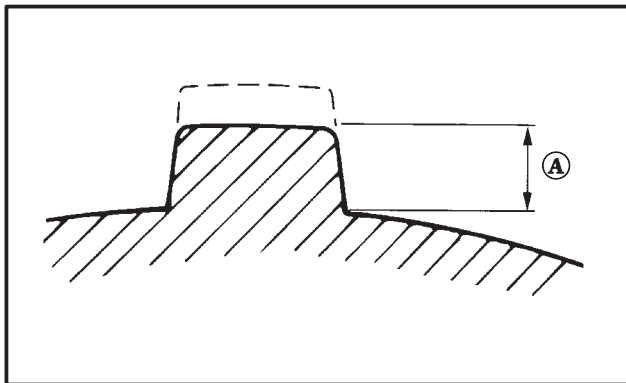
	Recommended pressure
Front	30~35kpa, (0.3~0.35kgf/cm ²), 4.2~5.0psi
Rear	30~35kpa, (0.3~0.35kgf/cm ²), 4.2~5.0psi



1. Low-pressure tire gauge

Tire wear limit

When the tire groove decreases to 3 mm (0.12 in) due to wear, replace the tire.



A. 3mm (0.12 in)

OPERATION



WARNING

Indicates a potential hazard that could result in serious injury or death.



WARNING

POTENTIAL HAZARD

Operating ATV without being familiar with all controls.

WHAT CAN HAPPEN

Loss of control, which could cause an accident or injury.

HOW TO AVOID THE HAZARD

Read the Owner's Manual carefully. If there is a control or function you do not understand, ask your KYMCO dealer.

Starting a cold engine (only MX'er 150/125)



WARNING

POTENTIAL HAZARD

Freezing control cables in cold weather.

WHAT CAN HAPPEN

You could be unable to control the ATV, which could lead to an accident or collision.

HOW TO AVOID THE HAZARD

When riding in cold weather, always make sure all control cables work smoothly before you begin riding.

1. Set the parking brake.
2. Turn the fuel lock to "ON".
3. Turn the main switch to " · " .
4. Shift the drive select lever to neutral.

NOTE:

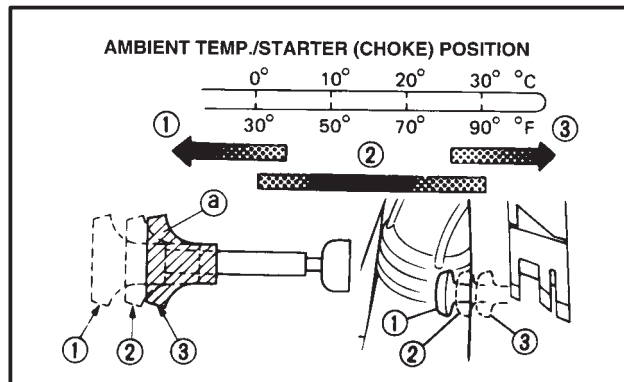
- The engine can be started only when the drive select lever is in neutral.
- When the select lever is in neutral, the neutral indicator light should come on. If the light does not come on, ask a KYMCO dealer to inspect it.

6. Use the starter (choke) in reference to the figure:

Position ①: Cold engine start-ambient temperature below 5°C (40°F).

Position ②: Cold engine start-ambient temperature at 0°C (30°F)~30°C(90°F) and warming up position.

Position ③: Cold engine start-ambient temperature above 25°C(80°F) and warm engine start position.



1. Fully open

2. Half open

3. Closed

a. Starter (choke)

6. Completely close the throttle lever and start the engine by pushing the start switch.

NOTE:

If the engine fails to start, release the start switch, then push the start switch again. Each cranking should be as short as possible to preserve battery energy. Do not crank the engine more than 10 seconds on each attempt.

7. If the engine is started with the starter (choke) in position 1, the starter (choke) should be returned to position 2 to warm up the engine. If the engine is started with the starter (choke) in position 2, keep the starter (choke) in this position to warm up the engine.
8. Continue warming up the engine until it idles smoothly and return the starter (choke) to position 3 before riding.

CAUTION:

See the "engine break-in" section prior to operating engine for the first time.

Starting a warm engine

To start a warm engine, refer to the "Starting a cold engine" section. The starter (choke) should not be used. The throttle should be opened slightly.

Warming up

To get maximum engine life, always warm up the engine before starting off. Never accelerate hard with a cold engine! To see whether or not the engine is warm, check if it responds to the throttle normally with the starter (choke) turned off.

Starting a cold engine (only MX'er 50)



WARNING

POTENTIAL HAZARD

Freezing control cables in cold weather.

WHAT CAN HAPPEN

You could be unable to control the ATV, which could lead to an accident or collision.

HOW TO AVOID THE HAZARD

When riding in cold weather, always make sure all control cables work smoothly before you begin riding.

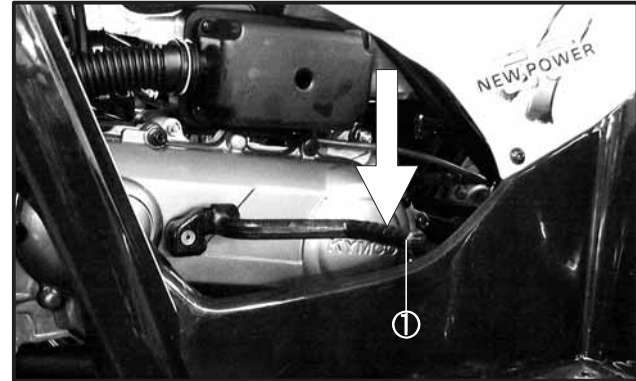
1. Set the parking brake.
2. Turn the fuel lock to "ON".
3. Turn the main switch to " · " .
4. Turn the engine stop switch to "O".

Use the electric starter button

- Push the electric starter button without pushing the throttle lever.
- If the engine fails to start after the electric starter button is pressed for 3~4 seconds, push the throttle lever slightly to facilitate starting.
- When the ATV is not used for a long time or the fuel tank is empty, if the engine es still hard to start after the fuel tank is refilled with gasoline, slightly push lever and press the electric starter button for several times to start the engine.
- In order to avoid battery overcharge, do not press the starter button more than 5 seconds.
- If the engine does not start after the electric starter button is pressed for 5 seconds, wait for more than 5 seconds and then press the button again or start the engine by the kick lever.

Start with the kick lever (only MX'er 50)

1. Place the ATV on level ground.
2. Depress the kick lever with force.
 - When the engine is cold and does not start after the kick lever is cold and does not start after the kick lever is depressed for 3~4 times, push the throttle lever slightly to facilitate starting.
 - Warm up the engine is started, do not accelerate suddenly and keep riding at low speed to prolong the engine service life.
 - After the engine is started, the kick lever must be returned to its original position.



1. Starter kick lever (only MX'er 50)

Drive select lever operation and reverse driving (only MX'er 150/125)

CAUTION:

Before shifting, you must stop the machine and return the throttle lever to its closed position. Otherwise, the transmission may be damaged.

1. Shifting : forward

- A. Bring the machine to a complete stop and return the throttle lever to the closed position.
- B. Apply the parking brake.
- C. Shift the gear from neutral to forward by moving the shift lever along the shift guide.

NOTE:

Make sure that the lever is completely shifted into position.

- D. Open the throttle lever gradually.

NOTE:

If the drive select lever is shifted into forward while the engine is running, the engine will stop unless the parking brake is applied.



A. Drive select lever

1. Neutral "N"

2. Forward

3. Reverse "R"

2. Shifting : reverse

- A. Bring the machine to a complete stop and return the throttle lever to the closed position.
- B. Apply the parking brake.
- C. Shift the gear from neutral to reverse and by moving the shift lever along the shift guide.

NOTE:

When in reverse, the reverse indicator light should be on. If the light does not come on, ask a KYMCO dealer to inspect the machine.

- D. Check behind for people or obstacles, then release the parking brake.
- E. Open the throttle lever gradually and continue to watch to the rear while backing.

NOTE:

If the drive select lever is shifted into reverse while the engine is running, the engine will stop unless the parking brake is applied.

**WARNING****POTENTIAL HAZARD**

Improperly operation in reverse.

WHAT CAN HAPPEN

You could hit an obstacle or person behind you, resulting in serious injury.

HOW TO AVOID THE HAZARD

When you shift into reverse, make sure there are no obstacles or people behind you. When it is safe to proceed, go slowly.

Engine break-in

There is never a more important period in the life of your machine than the period between zero and 20 hours.

For this reason, we ask that you carefully read the following material. Because the engine is brand new, you must not put an excessive load on it for the first 20 hours, the various parts in the engine wear and polish themselves to the correct operating clearances.

During this period, prolonged full throttle operation or any condition which might result in excessive engine heating must be avoided.

However, momentary (2~3 seconds maximum) full throttle operation under load does not harm the engine.

Each full throttle acceleration sequence should be followed with a substantial rest period for the engine by cruising at lower r/min so the engine can rid itself of the temporary build up of heat. If any abnormality is noticed during this period, consult a KYMCO dealer.

1. 0~10 hours:

Avoid continuous operation above half throttle. Allow a cooling off period of five to ten minutes after every hour of operation. Vary the speed of the machine from time to time. Do not operate it at full throttle position.

2. 10~20 hours:

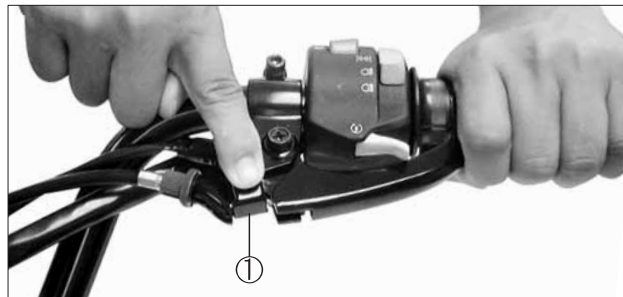
Avoid prolonged operation above 3/4 throttle. Rev the machine freely through the gears but do not use full throttle at any time.

3. After break-in

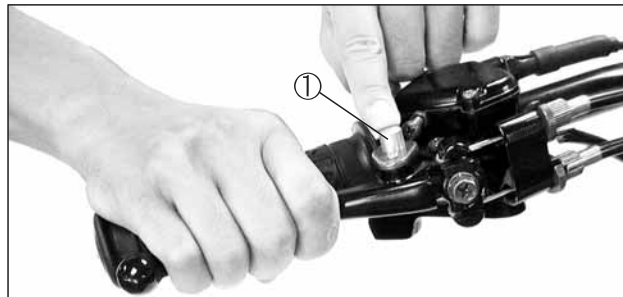
Avoid prolonged full throttle operation. Vary speeds occasionally.

Parking

When parking, stop the engine and shift into neutral. Turn the fuel lock to "OFF" and apply the parking brake.



1.Rear brake lock plate (not all type)



1.Front brake lock pin

Parking on a slope



WARNING

POTENTIAL HAZARD

Parking on a slope or other incline.

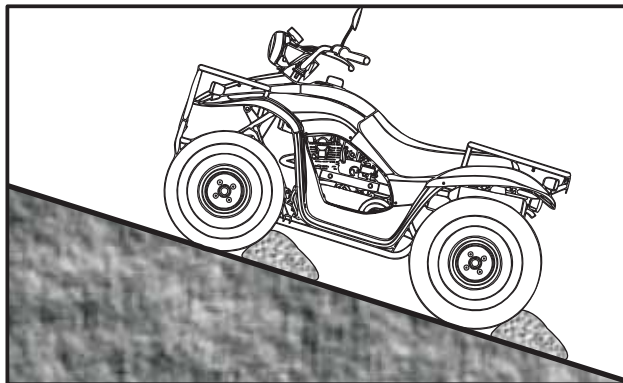
WHAT CAN HAPPEN

The ATV could roll out of control, increasing the chance of an accident.

HOW TO AVOID THE HAZARD

Avoid parking on slope or other inclines. If you must park on an incline, place the machine transversely across the incline, apply the parking brake, and block the front and rear wheels with rocks or other objects. Do not park the ATV at all on slope that are so steep you could not walk up them easily.

1. Bring the machine to a stop by applying the brakes.
2. Stop the engine.
3. With the brake applied, apply the parking brake.



Accessories and loading

Accessories

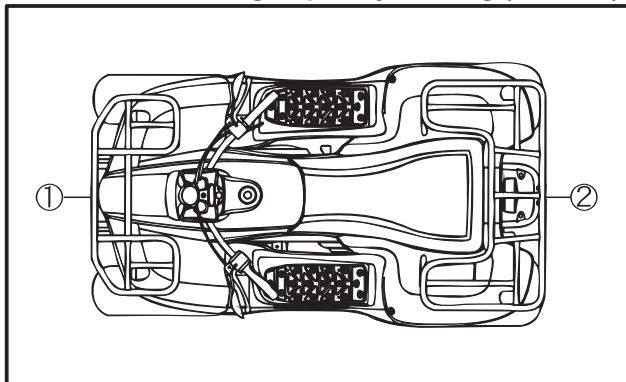
Accessories can affect the handling and control of your ATV. Keep the following in mind when considering an accessory or operating an ATV which has accessories.

- Choose only accessories designed for your ATV. Your KYMCO dealer has a variety of genuine KYMCO accessories. Other accessories may also be available on the market. However, it is not possible for KYMCO to test all non-KYMCO accessories, nor have any control over the quality or suitability of them. Choose a genuine KYMCO accessory, or one that is equivalent in design and quality.
- Accessories should be rigidly and securely mounted. An accessory which can shift position or come off while you are riding could affect your ability to control the ATV.
- Do not mount an accessory where it could interfere with your ability your to control the ATV. Examples include (but are not limited to) a heavy or bulky object attached to the handlebars which could make steering difficult, an accessory that limits your ability to move around on the seat, or one that limits your view.
- Use extra caution when riding an ATV with accessories. The ATV may handle differently than it does without accessories.

Loading

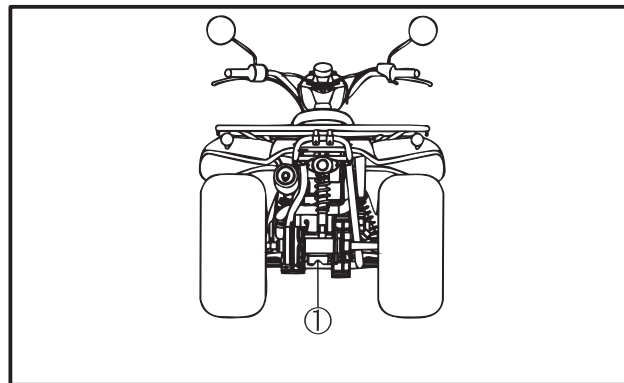
As originally equipped, this ATV can carry cargo or tow a trailer, you must use common sense and good judgment. Keep the following points in mind:

- Never exceed the weight limit shown. An overloaded ATV can be unstable.
- **Front carrier**
Maximum load: 15 kg (33 lbs)
- **Rear carrier**
Maximum load: 20 kg (44 lbs)
- **Maximum towing capacity: 100 kg (220 lbs)**



1. Front carrier

2. Rear carrier



1. Maximum towing capacity: 100 kg (220 lbs)

NOTE:

The MX'er 50 is not designed to tow a trailer.

- Load cargo on the carriers as close to the center of the vehicle as possible. Put cargo at the rear of the front carrier and at the front of the rear carrier. Center the load from side to side.
- Tie down cargo securely to the carriers. Make sure cargo in the trailer cannot move around.
- A shifting load can cause an accident.
- Make sure the load does not interfere with controls or your ability to see where you are going.
- Ride more slowly than you would without a load. The more weight you carry, the slower you should go.
- Allow more braking distance. A heavier vehicle takes longer to stop.
- Avoid making sharp turns unless at very slow speeds.
- Avoid hills and rough terrain. Choose terrain carefully. Added weight affects the stability and handling of the ATV.
- Never carry passenger on this carrier or on ATV.



WARNING

POTENTIAL HAZARD

Overloading this ATV or carrying or towing cargo improperly.

WHAT CAN HAPPEN

Could cause changes in vehicle handling which could lead to an accident.

HOW TO AVOID THE HAZARD

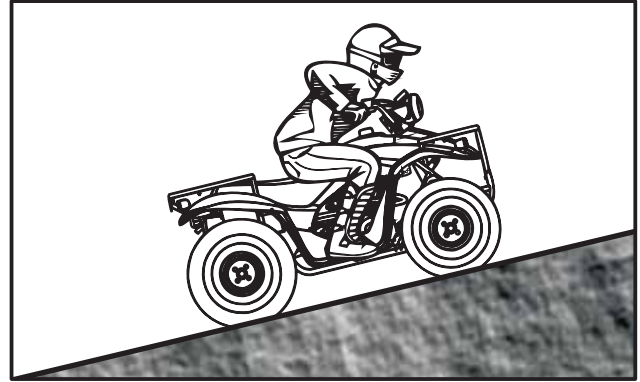
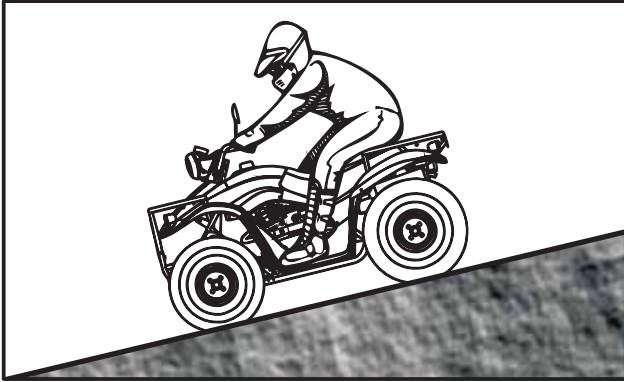
Never exceed the stated load capacity for this ATV.

Cargo should be properly distributed and securely attached.

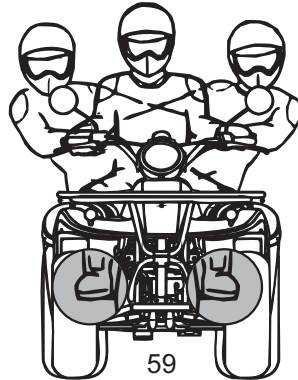
Reduce speed when carrying cargo or pulling a trailer. Allow greater distance for braking.



Indicates a potential hazard that could result in serious injury or death.



**Riding
Your
ATV**





WARNING

Indicates a potential hazard that could result in serious injury or death.

GETTING TO KNOW YOUR ATV

This ATV is for recreation and utility use. This section, riding your ATV, provides general ATV riding instructions for recreational riding. The skills and techniques described in this section, however, are appropriate for all types of riding. Riding your ATV requires special skills acquired through practice over a period of time. Take the time to learn the basic techniques well before attempting more difficult maneuvers.

Riding your new ATV can be a very enjoyable activity, providing you with hours of pleasure. But it is essential to familiarize yourself with the operation of the ATV to achieve the skill necessary to enjoy riding safely. Before you begin to ride, be sure you have read this Owner's

Manual completely and understand the operation of the controls. Pay particular attention to the safety information on pages 4~9. Please also read all caution and warning labels on your ATV.

RIDE WITH CARE AND GOOD JUDGEMENT

Get training if you are inexperienced.

Beginners should get training from a certified instructor.

Become familiar with this ATV at slow speeds first, even if you are an experienced operator.

Do not attempt to operate at maximum performance until you are totally familiar with the machine's handling and performance characteristics.



WARNING

POTENTIAL HAZARD

Operating this ATV without proper instruction.

WHAT CAN HAPPEN

The risk of an accident is greatly increased if the operator does not know how to operate the ATV properly in different situations and on different types of terrain.

HOW TO AVOID THE HAZARD

Beginning and inexperienced operators should complete the certified training course offered by KYMCO. They should then regularly practice the skills learned in the course and the operating techniques described in this Owner's Manual.

For more information about the training course, contact an authorized ATV dealer.

Riding your machine requires skills acquired through practice over a period of time.

Take the time to learn the basic techniques well before attempting more difficult maneuvers.

Not recommended for children under 16 year of age.



WARNING

POTENTIAL HAZARD

Failure to follow the age recommendations for this ATV.

WHAT CAN HAPPEN

Use by children of ATVs that are not recommended for their age can lead to severe injury or death of the child.

HOW TO AVOID THE HAZARD

A child under 16 should never operate an ATV with engine size greater than 90cc.



Never carry passenger on the carrier.

⚠ WARNING

POTENTIAL HAZARD

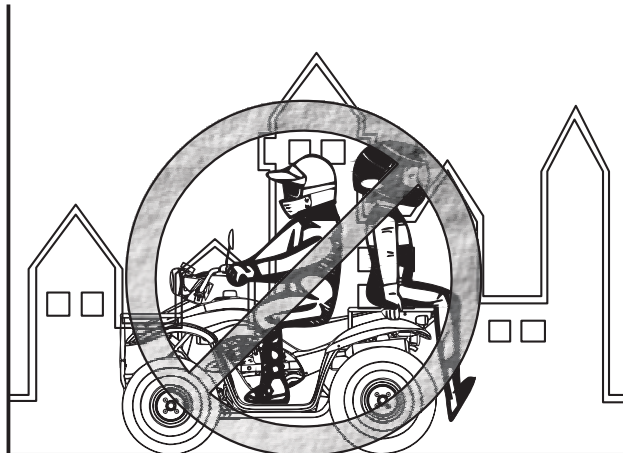
Carrying a passenger on the carrier.

WHAT CAN HAPPEN

Greatly reduces your ability to balance and control this ATV. Could cause an accident, resulting in harm to you and/or your passenger.

HOW TO AVOID THE HAZARD

Never carry a passenger on the carrier. The carrier is to allow the operator to carry cargo. It is not for carrying passengers.



Apparel



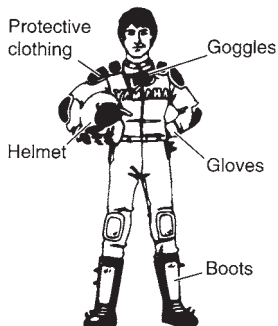
WARNING

POTENTIAL HAZARD

Operating this ATV without wearing an approved motorcycle helmet, eye protection and protective clothing.

WHAT CAN HAPPEN

Operating without an approved motorcycle helmet increases your chances of a severe head injury or death in the event of an accident. Operating without eye protection can result in an accident and increases your chances of a severe injury in the event of an accident.



Operating without protective clothing increases your chances of severe injury in the event of an accident.

HOW TO AVOID THE HAZARD

Always wear an approved motorcycle helmet that fits properly.

You should also wear:

eye protection

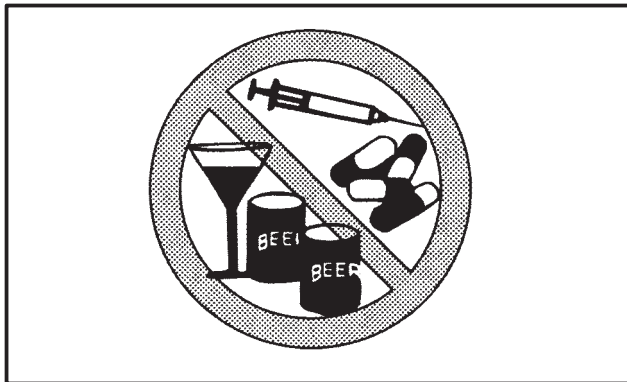
boots

long-sleeved shirt or jacket

Long pants

Do not operate after consuming alcohol or drugs.

Operator's performance capability is reduced by the influence of alcohol or drugs.



WARNING

POTENTIAL HAZARD

Operating this ATV after consuming alcohol or drugs.

WHAT CAN HAPPEN

**Could seriously affect your judgment.
Could cause you to react more slowly.
Could affect your balance and perception.
Could result in an accident.**

HOW TO AVOID THE HAZARD

Never consume alcohol or drugs before or while driving this ATV.

Pre-operation checks

Always perform the pre-operation checks listed on page 35 before riding for safety and proper care of the machine.



WARNING

POTENTIAL HAZARD

Failure to inspect the ATV before operating.
Failure to properly maintain the ATV.

WHAT CAN HAPPEN

Increases the possibility of an accident or equipment damage.

HOW TO AVOID THE HAZARD

Always inspect your ATV each time you use it to make sure the ATV is in safe operating condition.

Always follow the inspection and maintenance procedures and schedules described in the Owner's Manual.



WARNING

POTENTIAL HAZARD

Operating this ATV with improper tires, or with improper or uneven tire pressure.

WHAT CAN HAPPEN

Use of improper tires on this ATV, or operation of this ATV with improper or uneven tire pressure, may cause loss of control, increasing your risk of an accident.

HOW TO AVOID THE HAZARD

Always use the size and type tires specified in the Owner's Manual for this vehicle on pages 41~42.

Always maintain proper tire pressure as described in the Owner's Manual on page 42.

WARNING

Indicates a potential hazard that could result in serious injury or death.

Do not operate at speeds too fast your skills or the conditions.

WARNING

POTENTIAL HAZARD

Operating this ATV at speeds too fast for your skills or the conditions.

WHAT CAN HAPPEN

Increases your chances of losing control of the ATV, which can result in an accident.

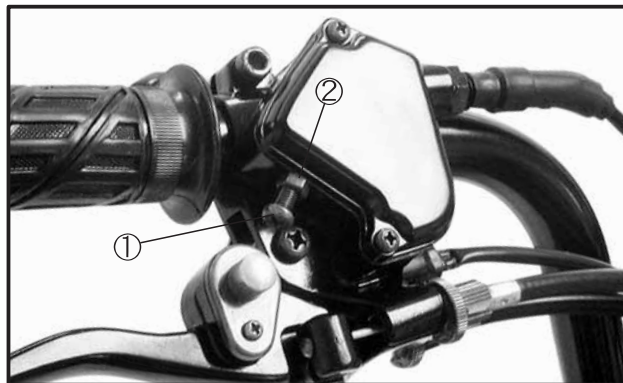
HOW TO AVOID THE HAZARD

Always go at a speed that is proper for the terrain, visibility and operating conditions, and your experience.

Speed limiter

For riders inexperienced with this model, this model is equipped with a speed limiter in the throttle lever housing. The speed limiter limits the power and top speed of the machine.

Turning the screw in decreases top speed, and turning it out increases top speed.



1. Adjuster

2. Locknut

Loading and accessories

Use extra caution when riding the machine with additional loads, such as accessories or cargo. The machine's handling may be adversely affected. Reduce your speed when adding additional loads.

MAXIMUM LOADING LIMIT

Front carrier: 15 kg (33lbs)

Rear carrier: 20 kg (44 lbs)

MAXIMUM TOWING LIMIT (only MX'er 150/125)

Towing capacity: 100 kg (220 lbs)



WARNING

POTENTIAL HAZARD

Overloading this ATV or carrying or towing cargo improperly.

WHAT CAN HAPPEN

Could cause changes in vehicle handling which could lead to an accident.

HOW TO AVOID THE HAZARD

Never exceed the stated load capacity for this ATV.

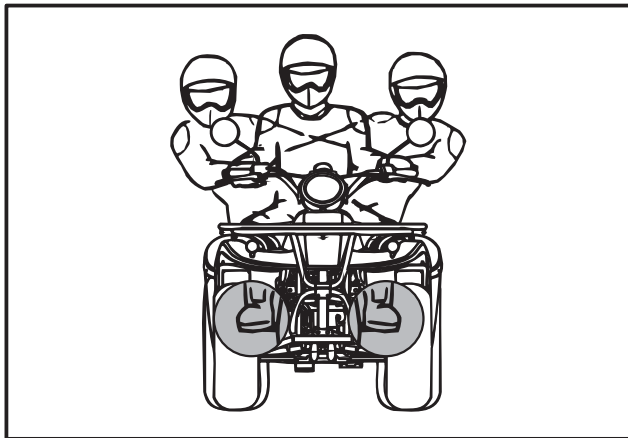
Cargo should be properly distributed and securely attached.

Reduce speed when carrying cargo or pulling a trailer. Allow greater distance for braking.

Always follow the instructions in your Owner's Manual for carrying cargo or pulling a trailer.

During operation

Always keep your feet on the footboards during operation. Otherwise your feet may contact the rear wheels.



WARNING

POTENTIAL HAZARD

Removing hands from handlebars or feet from footboards during operation.

WHAT CAN HAPPEN

Removing even one hand or foot can reduce your ability to control the ATV or could cause you to lose your balance and fall a footboard, your foot or leg may come into contact with the rear wheels, which could injure you or cause an accident.

HOW TO AVOID THE HAZARD

Always keep both hands on the handlebars and both feet on the footboards of your ATV during operation.

Avoid wheelies and jumping. You may lose control of the machine or overturn.



WARNING

POTENTIAL HAZARD

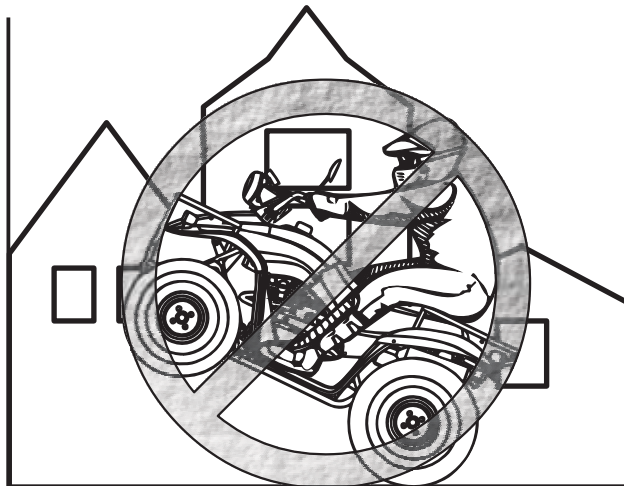
Attempting wheelies, jumps, and other stunts.

WHAT CAN HAPPEN

Increases the chance of an accident, including an overturn.

HOW TO AVOID THE HAZARD

Never attempt stunts, such as wheelies or jumps. Don't try to show off.



Modifications



WARNING

POTENTIAL HAZARD

Operating this ATV with improper modifications.

WHAT CAN HAPPEN

Improper installation of accessories or modification of this vehicle may cause changes in handling which in some situations could lead to an accident.

HOW TO AVOID THE HAZARD

Never modify this ATV through improper installation or use of accessories. All parts and accessories added to this vehicle should be genuine KYMCO or equivalent components designed for use on this ATV and should be installed and used according to instruction. If you have question, consult an authorized ATV dealer.

Exhaust system

The exhaust on the machine is very hot during and following operation. To prevent burns, avoid touching the exhaust system. Park the machine in a place where pedestrians or children are not likely to touch it.



WARNING

POTENTIAL HAZARD

Hot exhaust system

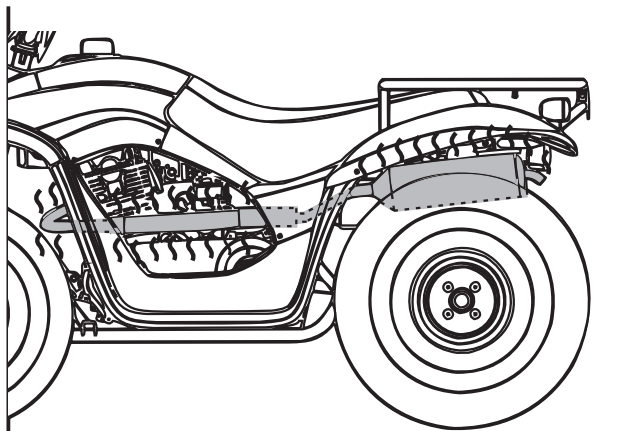
WHAT CAN HAPPEN

Someone touching the exhaust system during or after operation could be burned.

HOW TO AVOID THE HAZARD

Do not touch the hot exhaust system.

Do not park the machine in a place where others might be likely to touch it.



Select a flat area to become familiar with your ATV. Make sure that this area is free of obstacles and other riders. You should practice control of the throttle, brakes, shifting before trying more difficult terrain.

Always avoid riding on rough surfaces: the ATV is designed for on-road use only, and handling maneuvers are more difficult to perform on rough surfaces.

Set the parking brake and follow the instruction on page 44~48 to start the engine. Once it has warmed up you are ready to begin riding your ATV. Remember that the engine and exhaust pipe will be hot when riding and afterwards; do not allow skin or clothing to come in contact with these components.

With the engine idling, return the starter knob to the closed position and shift the drive select lever into the forward position. Then release the parking brake. Apply the throttle slowly and you will start to accelerate. If the throttle is applied too abruptly, the front wheels may lift off the ground resulting in a loss of directional control. Avoid higher speeds until you are thoroughly familiar with the operation of your ATV.

When slowing down or stopping, release the throttle and apply the brakes smoothly and evenly. Improper use of the brakes can cause the tires to lose traction, reducing control and increasing the possibility of an accident.

TURNING YOUR ATV

To achieve maximum traction while riding on-road, the two rear wheels are mounted solidly on one axle and turn together at the same speed. Therefore, unless the wheel on the inside of the turn is allowed to slip or lose some traction, the ATV will resist turning. A special turning technique must be used to allow the ATV to make turns quickly and easily. It is essential that this skill be learned first at low speed.



WARNING

POTENTIAL HAZARD

Turning improperly

WHAT CAN HAPPEN

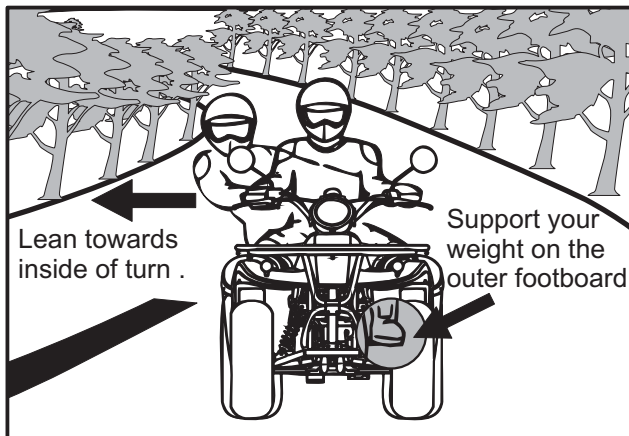
ATV could go out of control, causing a collision or overturn.

HOW TO AVOID THE HAZARD

Always follow proper procedures for turning as described in this Owner's Manual.

Practice turning at low speeds before attempting to turn at faster speeds. Do not turn at speeds too fast for your skills or the conditions.

As you approach a curve, slow down and begin to turn the handlebars in the desired direction. As you do so, put your weight on the footboard to the outside of the turn (opposite your desired direction) and lean your upper body into the turn. Use the throttle to maintain an even speed through the turn. This maneuver will let the wheel on the inside of the turn slip slightly, allowing the ATV to make the turn properly.



This procedure should be practiced at slow speed many times in a large paved area with no obstacles. If an incorrect technique is used, your ATV may continue to go straight. If the ATV doesn't turn, come to a stop and then practice the procedure again. If the riding surface is slippery or loose, it may help to position more of your weight over the front wheels by moving forward on the seat.

Once you have learned this technique you should be able to perform it at higher speeds or in tighter curves.

Improper riding procedures such as abrupt throttle changes, or too much speed for the sharpness of the turn may cause the ATV to tip. It may also be necessary to the outside of the turn to avoid tipping over.

Remember: Avoid higher speeds until you are thoroughly familiar with the operation of your ATV.

CLIMBING UP SLOPE

Use proper riding techniques to avoid vehicle overturns on slopes. Be sure that you can maneuver your ATV well on flat ground before attempting any incline and then practice riding first on gentle slopes. Try more difficult climbs only after you have developed your skill. In all cases avoid inclines with slippery or loose surfaces, or obstacles that might cause you to lose control.



WARNING

POTENTIAL HAZARD

Operating on excessively steep slopes.

WHAT CAN HAPPEN

The vehicle can overturn more easily on extremely steep slopes than on level surfaces or small slopes.

HOW TO AVOID THE HAZARD

Never operate the ATV on slopes too steep for the ATV or for your abilities.

Practice on smaller slopes before attempting large slopes.

It is important when climbing a slope to make sure that your weight is transferred forward on the ATV. This can be accomplished by leaning forward, steeper inclines and standing on the footboards and leaning forward over the handlebars.

⚠ WARNING

POTENTIAL HAZARD

Climbing slopes improperly

WHAT CAN HAPPEN

Could cause loss of control or cause the ATV to overturn.

HOW TO AVOID THE HAZARD

Always follow proper procedures for climbing slopes as described in this Owner's Manual.

Always check the terrain carefully before you start up any slope.

Never climb slopes with excessively slippery or loose surfaces.

Shift your weight forward.

Never open the throttle suddenly.

The ATV could flip over backwards.

Never go over the top of any slope at high speed.

An obstacle or a sharp drop could be on the other side of the slope.



If you are climbing a slope and you find that you have not properly judged your ability to make it to the top, you should turn the ATV around while you still have forward motion (provided you have the room to do so) and go down the slope.



WARNING

POTENTIAL HAZARD

Improperly crossing slopes or turning on slopes.

WHAT CAN HAPPEN

Could cause loss of control or cause the ATV to overturn.

HOW TO AVOID THE HAZARD

Never attempt to turn the ATV around on any slope until you have mastered the turning technique as described in the Owner's Manual on level ground. Be very careful when turning on any slope. Avoid crossing the side of a steep slope if possible.

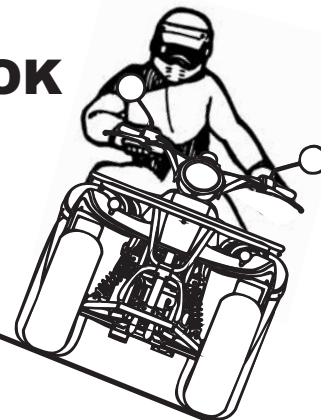
When crossing the side of a slope:

Always follow proper procedures as described in the Owner's Manual.

Avoid slopes with excessively slippery or loose surfaces.

Shift your weight to the up of slope side of the ATV.

OK



If your ATV has stalled or stopped and you believe you can continue up the slope, restart carefully to make sure you do not lift the front wheels which could cause you to lose control. If you are unable to continue up the slope, dismount the ATV on up slope side. Physically turn the ATV around and then descend the slope.

If you start to roll backwards, DO NOT use the rear brake to stop. The ATV could easily tip over backwards. Instead, dismount the ATV immediately on the up of slope side.



WARNING

POTENTIAL HAZARD

Stalling, rolling backwards or improperly dismounting while climbing a slope.

WHAT CAN HAPPEN

Could result in ATV overturning.

HOW TO AVOID THE HAZARD

Maintain steady speed when climbing a slope.

If you lose all forward speed:

Keep weight up slope.

Apply the brakes.

Lock parking brake, after you are stopped.

If you begin rolling backwards:

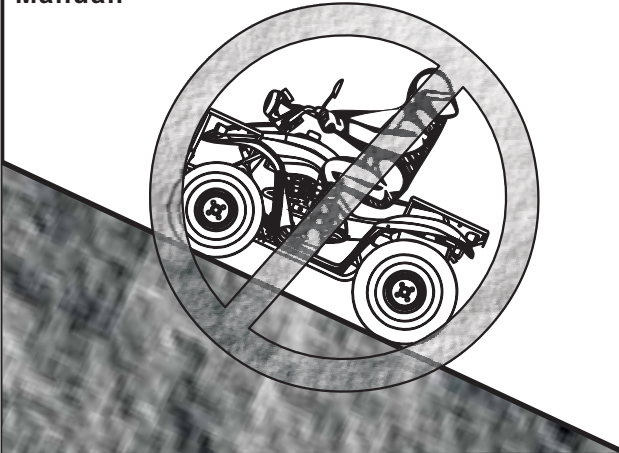
Keep weight up slope.

Never apply the rear brake while rolling backwards.

Apply the front brake.

When fully stopped, apply rear brake as well, and then lock parking brake.

Dismount on up slope side or to a side if pointed straight up slope. Turn the ATV around and remount, following the procedure described in the Owner's Manual.



RIDING DOWN SLOPE

When riding your ATV down slope, shift your weight as far to the rear and up slope side of the ATV as possible. Move back on the seat and sit with your arms straight. Improper braking may cause a loss of traction.

Use caution while descending a slope with loose or slippery surfaces. Braking ability and traction may be adversely affected by these surfaces. Improper braking may also cause a loss of traction. Whenever possible, ride your ATV straight down slope. Avoid sharp angles which could allow the ATV to tip or roll over. Carefully choose your path and ride no faster than you will be able to react to obstacles which may appear.



WARNING

POTENTIAL HAZARD

Going down a slope improperly.

WHAT CAN HAPPEN

Could cause loss of control or cause the ATV to overturn.

HOW TO AVOID THE HAZARD

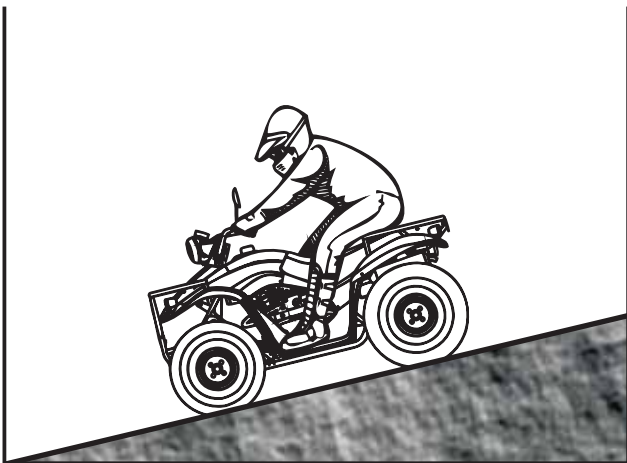
Always follow proper procedures for going down slopes as described in this Owner's Manual. Note: a special technique is required when braking as you go down a slope.

Always check the terrain carefully before you start down any slope.

Shift your weight backward.

Never go down a slope at high speed.

Avoid going down a slope at an angle that would cause the vehicle to lean sharply to one side. Go straight down the slope where possible.



WHAT TO DO IF

This section is designed to be a reference guide only. Be sure to read each section on riding techniques completely.

WHAT TO DO....

If your ATV doesn't turn when you want it to:
Bring the ATV to a stop and practice the turning maneuvers again. Be sure you are putting your weight on the footboard to the outside of the turn. Position your weight over the front wheels for better control. (See pages 74~75.)

If your ATV begins to tip while turning:
Lean more into the turn to regain balance. If necessary, gradually let off the throttle and /or steer to the outside of the turn. (See pages 74~75.)

If your ATV can't make it up a slope you are trying to climb:

Turn the ATV around if you still have forward speed. If not, stop, dismount on the up slope side of the ATV and physically turn the ATV around. If the ATV starts to slip backwards **DO NOT USE THE REAR BRAKE** - the ATV may tip over on top of you. Dismount the ATV on the up slope side. (See pages 76~80.)



WARNING

Indicates a potential hazard that could result in serious injury or death.

PERIODIC MAINTENANCE AND ADJUSTMENT

Periodic inspection, adjustment and lubrication will keep your machine in the safest and most efficient condition possible. Safety is an obligation of the machine owner. The most important points of machine inspection, adjustment and lubrication are explained on the following pages.

WARNING

POTENTIAL HAZARD

Servicing an engine while it is running.

WHAT CAN HAPPEN

Moving parts can catch clothing or parts of the body, causing injury.

Electrical components can cause shocks or can start fires.

HOW TO AVOID THE HAZARD

Turn off the engine when performing maintenance unless otherwise specified.

Have KYMCO dealer perform service if you are not familiar with machine service.

Owner's manual and tool kit

You are recommended to put this owner's manual and low-pressure tire gauge in the vinyl bag and always carry them along with the owner's tool kit under the seat.



1. Owner's tool kit

The service information included in this manual is intended to provide you, the owner, with the necessary information for completing your own preventive maintenance and minor repairs. The tools provided in the Owner's tool kit are sufficient for this purpose, except that a torque wrench is also necessary to properly tighten nuts and bolts.

NOTE:

If you do not have a torque wrench available during a service operation requiring one, take your machine to a KYMCO dealer to check the torque settings and adjust them as necessary.



WARNING

POTENTIAL HAZARD

Operating this ATV with improper modifications.

WHAT CAN HAPPEN

Improper installation of accessories or modification of this vehicle may cause changes in handling which in some situation could lead to an accident.

HOW TO AVOID THE HAZARD

Never modify this ATV through improper installation or use of accessories. All parts and accessories added to this vehicle should be genuine KYMCO or equivalent components designed for use on this ATV and should be installed and used according to instructions. If you have questions, consult an authorized KYMCO dealer.

PERIODIC MAINTENANCE/LUBRICATION

ITEM	ROUTINE	INITIAL			EVERY	
		1 month	3 months	6 months	6 months	1 year
Valves* (only MX'er 150/125)	<ul style="list-style-type: none"> • Check valve clearance. • Adjust if necessary. 	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Spark plug	<ul style="list-style-type: none"> • Check condition. • Adjust gap and clean. • Replace if necessary. 	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Air filter element (for engine and V-belt compartment)	<ul style="list-style-type: none"> • Clean. • Replace if necessary. 		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Carburetor*	<ul style="list-style-type: none"> • Check idle speed/starter operation. • Adjust if necessary. 		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cylinder head cover breather system* (only MX'er 150/125)	<ul style="list-style-type: none"> • Check breather hose for cracks or damage. • Replace if necessary. 			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Exhaust system*	<ul style="list-style-type: none"> • Check leakage. • Retighten if necessary. • Replace gasket if necessary. 			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Spark arrester	<ul style="list-style-type: none"> • Clean. 			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fuel line*	<ul style="list-style-type: none"> • Check fuel hose for cracks or damage. • Replace if necessary. 			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Engine oil (only MX'er 150/125)	<ul style="list-style-type: none"> • Replace (Warm engine before draining). 	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Oil strainer* (only MX'er 150/125)	<ul style="list-style-type: none"> • Clean. • Replace if necessary. 	<input type="radio"/>				<input type="radio"/>
Drive chain	<ul style="list-style-type: none"> • Check and adjust slack/alignment/clean/lube. 	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Transmission oil	<ul style="list-style-type: none"> • Check oil level/oil leakage. • Replace every 12 months. 	<input type="radio"/>				<input type="radio"/>

ITEM	ROUTINE	INITIAL			EVERY	
		1 month	3 months	6 months	6 months	1 year
Brake*	<ul style="list-style-type: none"> • Check valve clearance. • Adjust if necessary. 	○		○	○	○
V-belt*	<ul style="list-style-type: none"> • Check operation. • Replace if damage or excessive wear. 	○				○
Wheels*	<ul style="list-style-type: none"> • Check balance/damage/runout. • Replace if necessary. 	○		○	○	○
Wheel bearings*	<ul style="list-style-type: none"> • Check bearing assembly for looseness/damage. • Replace if damaged. 	○		○	○	○
Steering system*	<ul style="list-style-type: none"> • Check operation. • Replace if damaged. • Check toe-in. • Adjust if necessary. 	○	○	○	○	○
Knuckle shafts/ Steering shaft*	<ul style="list-style-type: none"> • Lubricate every 6 months. 			○	○	○
Fittings and Fasteners*	<ul style="list-style-type: none"> • Check all chassis fittings and fasteners. • Correct if necessary. 	○	○	○	○	○
Battery*	<ul style="list-style-type: none"> • Check specific gravity. • Check breather hose for proper operation. • Correct if necessary. 					

* : It is recommended that these items be serviced by a KYMCO dealer.

** : Lithium soap base grease.



WARNING

Indicates a potential hazard that could result in serious injury or death.

Engine oil (only MX'er 150/125)

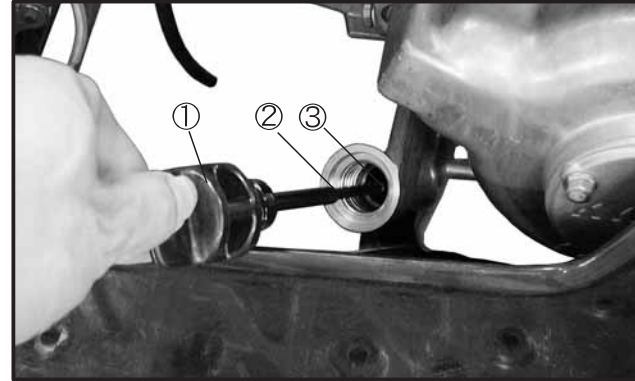
1. Engine oil level measurement

- A. Place the machine on a level place.
- B. Warm up the engine for several minutes and stop it.
- C. Remove the dipstick and wipe it off with a clean rag. Insert the dipstick in the filler hole without screwing it in.

NOTE:

Wait a few minutes until the oil level settles before checking.

- D. Remove the dipstick and inspect the oil level.
- E. The oil level should be between the maximum and minimum marks. If the level is low, add oil to raise it to the proper level.



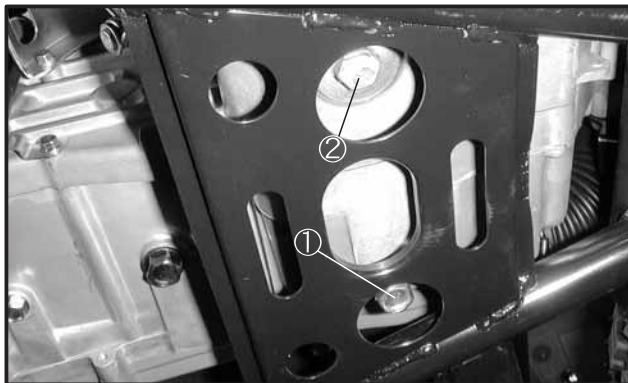
1. Dipstick
2. Maximum level mark
3. Minimum level mark

CAUTION:

Be sure no foreign material enters the crankcase.

2. Engine oil replacement and oil filter cleaning
 - A. Place the machine on a level place.
 - B. Warm up the engine for several minutes and stop it.
 - C. Place a container under the engine.

D. Remove the dipstick and drain plug to drain the oil.



1. Drain plug

2. Oil strainer

CAUTION:

When removing the drain plug, the compression spring, oil strainer and O-ring will fall out. Take care not to lose these parts.

E. Clean the oil strainer with solvent.

F. Inspect the O-ring and replace if damaged.

G. Reinstall the O-ring, oil strainer, compression spring and drain plug. Tighten the drain plug to specification.

CAUTION:

Before reinstalling the drain plug, be sure to install the O-ring, compression spring and oil strainer.

Tightening torque:

Drain plug (engine):

32 Nm (3.2 m·kg, 23 ft·lb)

Oil strainer:

20 Nm (2.0 m·kg, 14 ft·lb)

H. Fill the engine with oil and install the dipstick.

Recommended oil: see page 125

Oil quantity:

Periodic oil change

0.9 L (0.79 Imp qt, 0.95 US qt)

Total amount:

1.0 L (0.85 Imp qt, 1.05 US qt)

CAUTION:

Be sure no foreign material enters the crankcase.

I. Warm up the engine for several minutes at idle Speed. Check for oil leakage while warming up.

CAUTION:

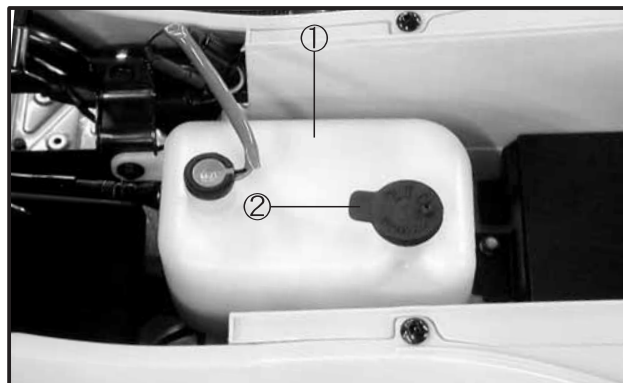
If oil leakage is found, stop the engine immediately and check for the cause.

2-stroke motor oil (only MX'er 50)

1. Motor oil indicator light

When the main switch is at " · " position, it is Normal if the motor oil indicator light comes on for several seconds and then goes out. If the light does not go out, it means that the motor oil is insufficient. Please refill with the specified Motor oil.

2. Motor oil level inspection and refilling



1. Motor oil tank

2. Cap

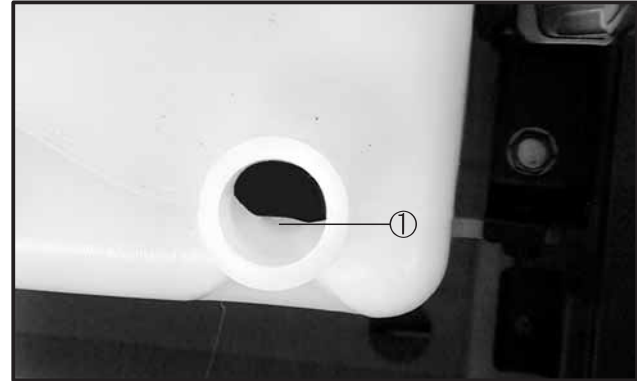
- A. Place the ATV on level place.
- B. Open the seat and turn the motor oil tank cap counterclockwise to open it.
- C. Fill the oil tank with the recommended 2-stroke motor oil and close the motor oil Tank cap.

CAUTION:

Be sure no foreign material enters the oil tank .

NOTE:

- When adding the motor oil, the oil level shall not exceed the upper limit. Be careful not to allow foreign matters or dust to enter the oil tank.
- Use of unspecified motor oil may cause poor performance or engine damage.



1. Oil lever

Transmission oil

1. Transmission oil replacement

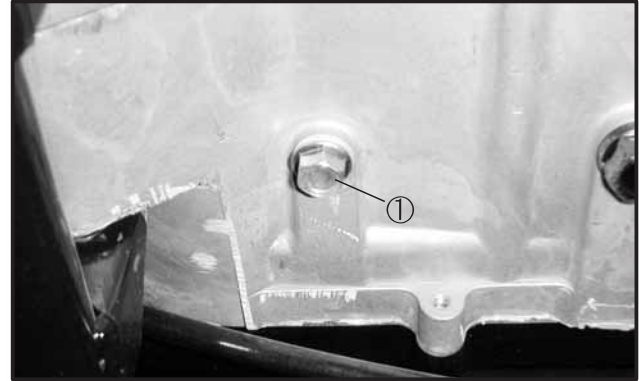
- A. Place the machine on a level place.
- B. Place a container under the engine.
- C. Remove the oil filler bolt and drain plug to Drain the oil.
- D. Reinstall the drain plug and tighten to Specification.

Tightening torque

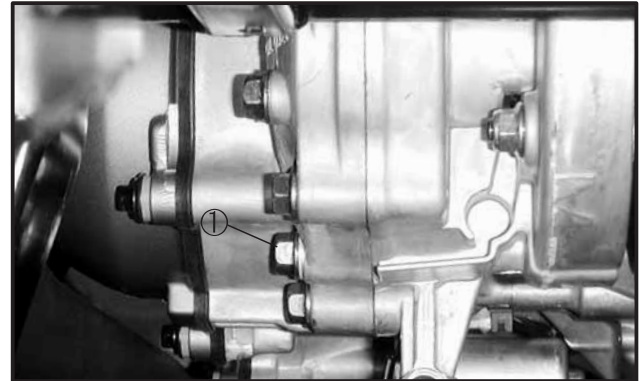
Drain plug:

MX'er 150/125: 23 Nm (2.3 m·kg, 17 ft·lb)

MX'er 50: 15 Nm (1.5 m·kg, 11 ft·lb)



1. Drain plug (MX'er 150/125)



1. Drain plug (MX'er 50)

E. Fill the engine with oil and install the oil filler bolt.

Recommended oil : See page 125

Oil quantity :

Periodic oil change

0.2 L (MX'er 150/125)

0.09L (MX'er 50)

CAUTION:

Be sure no foreign material enters the crankcase.

Tightening torque

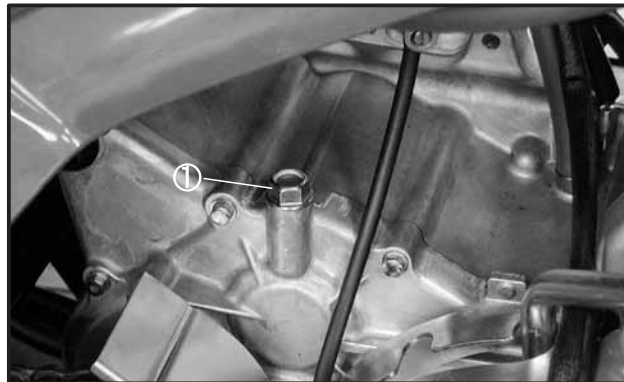
Oil filler bolt:

MX'er 150/125: 23 Nm (2.3 m-kg, 17 ft-lb)

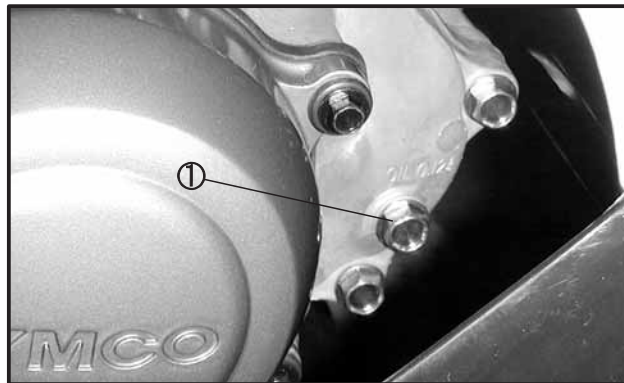
MX'er 50: 15 Nm (1.5 m-kg, 11ft-lb)

F. Start the engine and warm up for a few minutes. While warming up, check for oil leakage. If oil leakage is found, stop the engine immediately and check for the cause.

G. Check the oil level.



1. Oil filler bolt (MX'er 150/125)



1. Oil filler bolt (MX'er 50)

Spark plug inspection

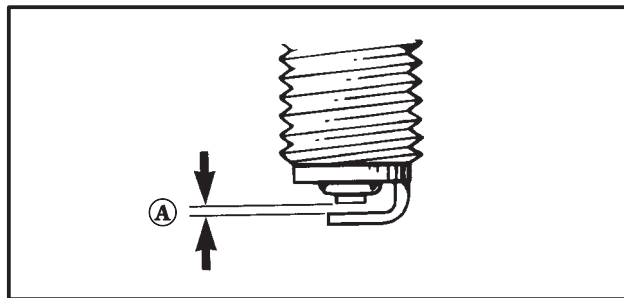
The spark plug is an important engine component and is easy to inspect. The condition of the spark plug can indicate the condition of the engine.

For example, a very white center electrode porcelain color could indicate an intake air leak or carburetion problem for that cylinder. Do not attempt to diagnose such problems yourself. Instead, take the machine to a KYMCO dealer. You should periodically remove and inspect the spark plug because heat and deposits will cause the spark plug to slowly break down and erode. If electrode erosion becomes excessive, you should replace the spark plug with one of the proper type.

Standard spark plug:
DR8-EA (MX'er 150/125)
NGK Br8 HAS (MX'er 50)

Before installing the spark plug, measure the electrode gap with a feeler gauge and adjust to specification.

Spark plug gap:
0.6~0.7 mm (0.024~0.028 in)



A. Spark plug gap

When installing the spark plug, always clean the gasket surface and use a new gasket. Wipe off any grime from the threads and tighten to the specified torque.

Tightening torque:
Spark plug:
12.5 Nm (1.25 m.kg, 9.1 ft.lb)

Air filter cleaning

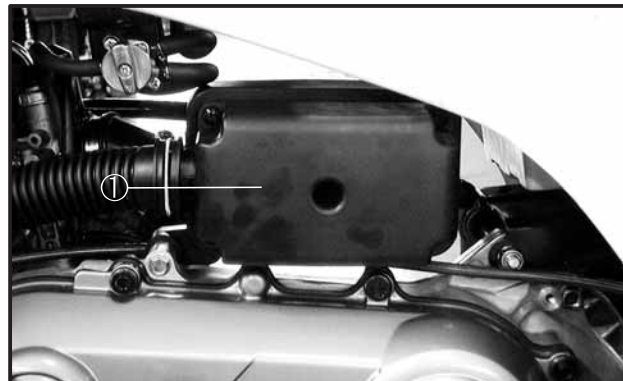
- A. Remove the seat (only MX'er 150/125).
- B. Remove the air filter case cover.

(MX'er 150/125)



- 1. Air filter case cover
- 2. Clamp

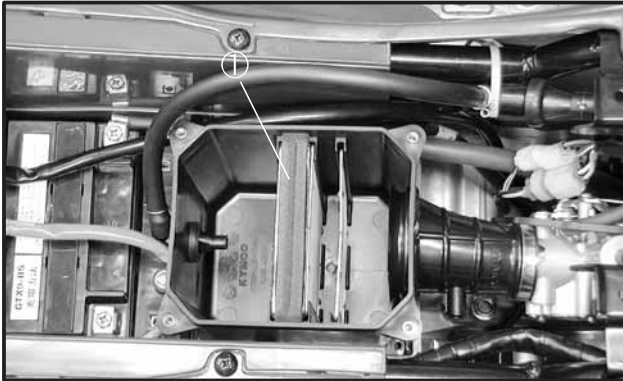
(MX'er 50)



- 1. Air filter case cover

C. Remove the air filter element, and separate it from the box.

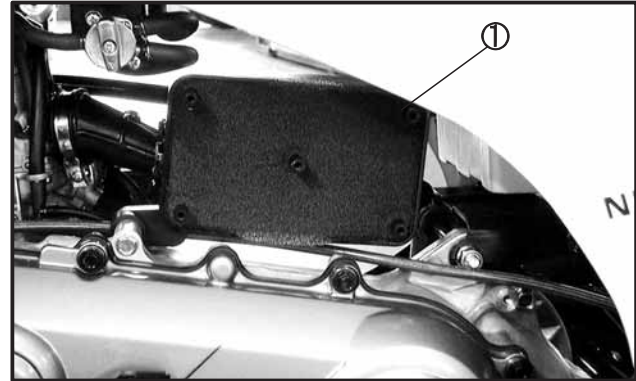
(MX'er 150/125)



1. Air filter element

D. Wash the element gently but thoroughly in solvent.

(MX'er 50)



1. Air filter element



WARNING

POTENTIAL HAZARD

Using low flash point solvents or gasoline to clean the air filter element.

WHAT CAN HAPPEN

Low flash point solvents or gasoline can catch fire or explode.

HOW TO AVOID THE HAZARD

Use parts cleaning solvent to clean the air filter element.

F. Squeeze the excess solvent out of the filter and let it dry.

CAUTION:

Do not twist the filter element when squeezing it.

G. Inspect the element. If damaged, replace it.

H. Apply KYMCO foam air filter oil or other quality foam air filter oil to the element. If foam air filter oil is not available, motor oil may be used.

NOTE:

The element should be wet but not dripping.

I. Reinstall the element to the element guide.

J. Reinstall the element assembly and parts removed for access.

Idle speed adjustment

NOTE:

A diagnostic tachometer must be used for this procedure.

1. Start the engine and warm it up for a few minutes at approximately 1,000 to 2,000 r/min. Occasionally rev the engine to 4,000 to 5,000 r/min. The engine is warm when it quickly responds to the throttle.
2. Connect the tachometer and set the idle to the specified idling speed by adjusting the throttle stop screw. Turn the screw in to increase engine speed, and out to decrease engine speed.

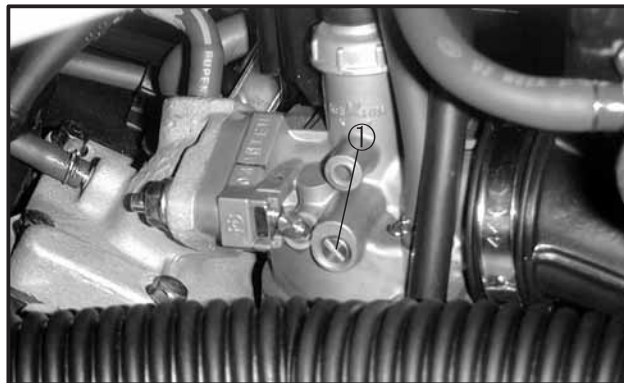
Specified idle speed:

1,600~1,800 rpm (MX'er 150/125)

1,900~2,100 rpm (MX'er 50)



1. Throttle stop screw (MX'er 150/125)



1. Throttle stop screw (MX'er 50)

Valve clearance adjustment (only MX'er 150/125)

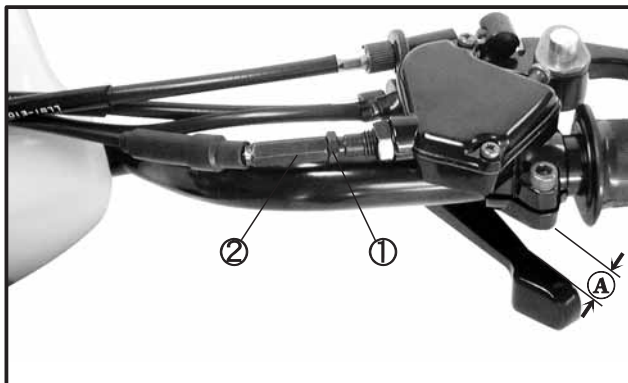
The correct valve clearance changes with use, resulting in improper fuel/air supply or engine noise. To prevent this, the valve clearance must be adjusted regularly. This adjustment however, should be left to a professional KYMCO service technician.

Throttle lever adjustment

NOTE:

Adjust the engine idling speed before adjusting the throttle lever free play.

1. Loosen the locknut.
2. Turn the adjusting bolt until the throttle lever free play is 1~4 mm (0.04~0.16 in)
3. Tighten the locknut.



1. Locknut

2. Adjusting bolt

A. 1~4 mm (0.04~0.16 in)

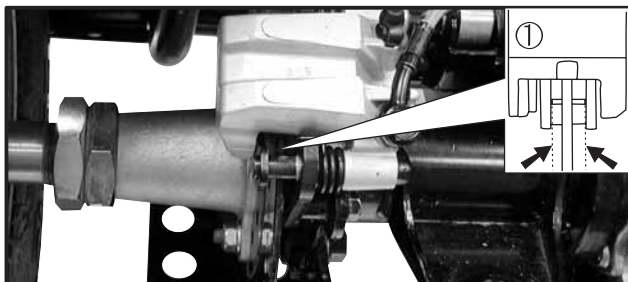
Front and rear brake shoe inspection

A wear indicator is provided on each brake. The indicators allows checking of brake shoe wear without disassembling the brake. Apply the brake and check the position of the indicator. If the indicator reaches the wear limit line, ask a KYMCO dealer to replace the shoes as a set.



1. Wear indicator

2. Wear limit

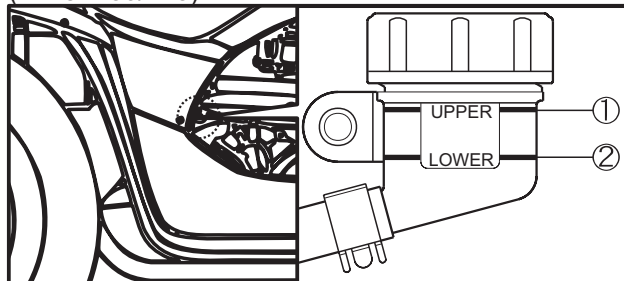


1. Wear limit

Brake fluid inspection(Disk brake)

Add recommended brake fluid DOT4 into the tank until the fluid level reaches the upper limit if the fluid level reaches the lower limit or replace every year and do not mix brake fluid of different brands.

(MX'er 150/125)



1. Upper limit

2. Lower limit

(MX'er 50)



1. Lower limit

Front brake lever free play adjustment

NOTE:

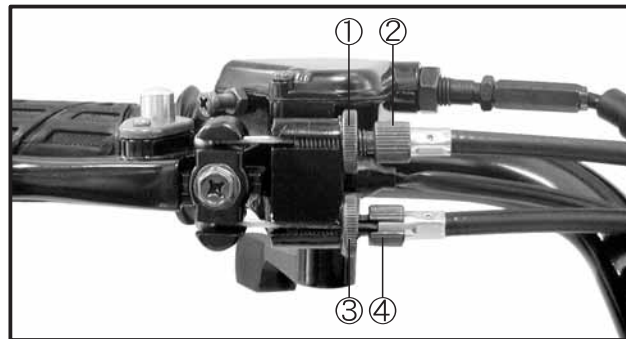
Before adjusting the brake, inspect the front brake shoes.

The front brake lever free play should be adjusted to 10~20 mm (0.4~0.8 in) at the brake lever pivot. If the free play is incorrect, adjust as follows:



A. Free play 10~20 mm (0.4~0.8 in)

1. Loosen the upper locknut and fully turn in the adjusting bolt.



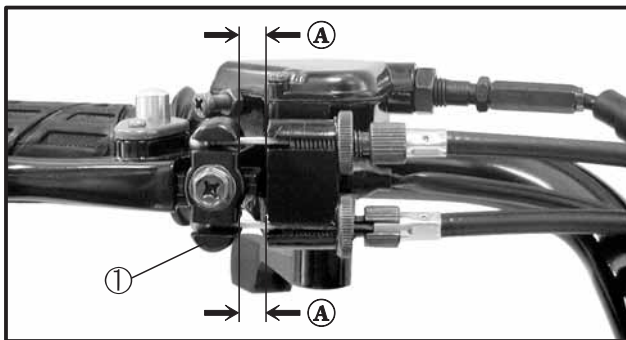
1. Upper locknut
2. Upper adjusting bolt
3. Lower locknut
4. Lower adjusting bolt

2. Loosen the lower locknut.
3. Turn the lower adjusting bolt until specified free play is obtained.

Specified free play:

10~20 mm (0.4~0.8 in)

4. Tighten the lower locknut.
5. While applying the front brake, turn out the upper adjusting bolt until the upper and lower cable lengths are equal. The cable joint will become vertical.



1. Cable joint

A. 2 mm (0.08 in)

6. Tighten the upper locknut.

NOTE:

The clearance should be 2 mm (0.08 in).



WARNING

POTENTIAL HAZARD

Operating with improperly serviced or adjusted brakes.

WHAT CAN HAPPEN

You could lose braking ability, which could lead to an accident.

HOW TO AVOID THE HAZARD

After servicing:

- Make sure the brakes operate smoothly and that the free play is correct.
- Make sure the brakes do not drag.

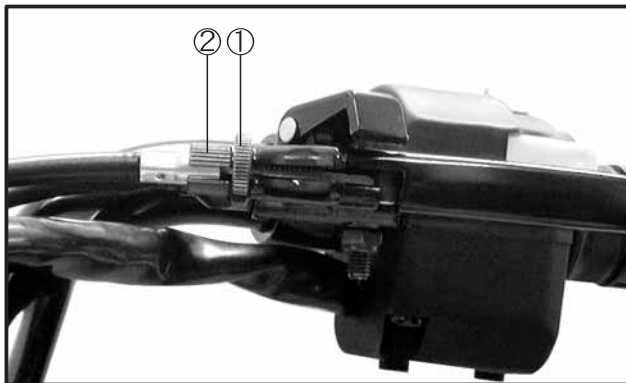
Replacement of brake components requires professional knowledge. These procedures should be performed by KYMCO dealer.

Rear brake adjustment (only MX'er 150/125)

1. Loosen the locknut.
2. Turn the adjusting bolt until specified free play is obtained.

Specified free play:
10~20 mm (0.4~0.8 in)

3. Tighten the locknut.



1. Locknut

2. Adjusting bolt



A. 10~20 mm (0.4~0.8 in)



WARNING

POTENTIAL HAZARD

Operating with improperly serviced or adjusted brakes.

WHAT CAN HAPPEN

You could lose braking ability, which could lead to an accident.

HOW TO AVOID THE HAZARD

After servicing:

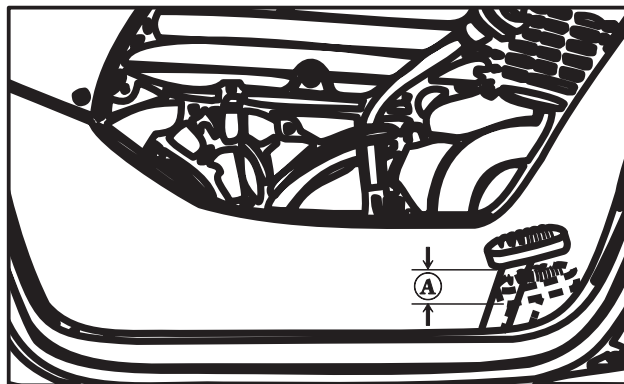
- Make sure the brakes operate smoothly and that the free play is correct.
- Make sure the brakes do not drag.

Replacement of brake components requires professional knowledge.

These procedures should be performed by a KYMCO dealer.

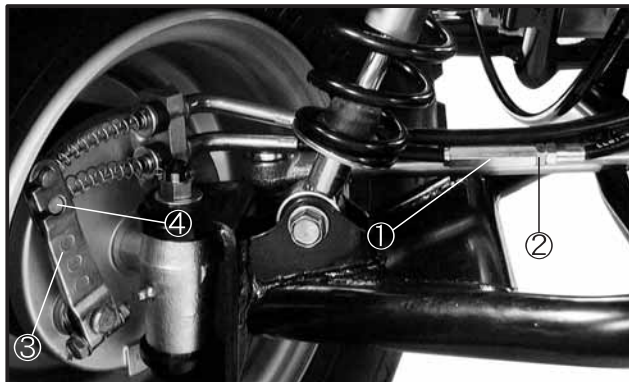
Brake pedal adjustment (only MX'er 150/125)

The brake pedal free play should be adjusted to 10~20 mm (0.4~0.8 in) at the brake pedal pivot. If the free play is incorrect, adjust as Follows:



A. 10~20 mm (0.4~0.8 in)

1. Keep front brake lever free play at 10~20 mm (0.4~0.8 in).
2. Loosen the locknut.
3. Turn the adjusting bolt until the front lower brake cable is tensed.
4. Apply the front brake lever and check front brake cam lever to make sure that the brake does not drag after adjusting.
5. Tighten the locknut.

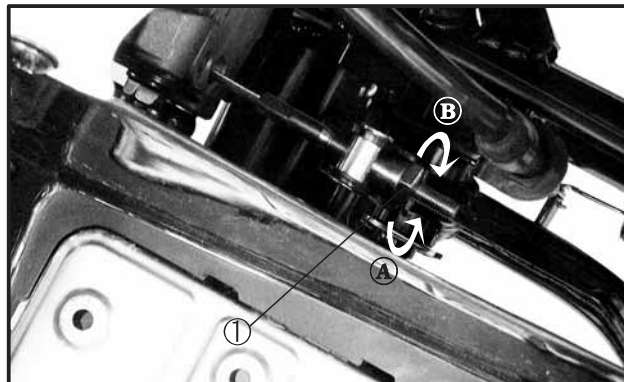


1. Adjusting bolt
2. Locknut
3. Brake cam lever
4. Front lower brake cable

6. Turn the adjusting nut on the brake cam lever in direction **A** to decrease play, and in direction **B** to increase play.
7. Turn the adjusting nut until specified free Play is obtained.

Specified free play:

10~20 mm (0.4~0.8 in)



1. Adjusting nut



WARNING

POTENTIAL HAZARD

Operating with improperly serviced or adjusted brakes.

WHAT CAN HAPPEN

You could lose braking ability, which could lead to an accident.

HOW TO AVOID THE HAZARD

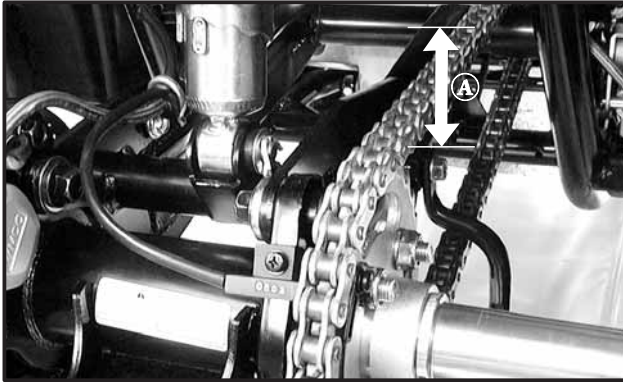
After servicing:

- **Make sure the brakes operate smoothly and that the free play is correct.**
- **Make sure the brakes do not drag.**

Replacement of brake components requires professional knowledge. These procedures should be performed by KYMCO dealer.

Drive chain slack check

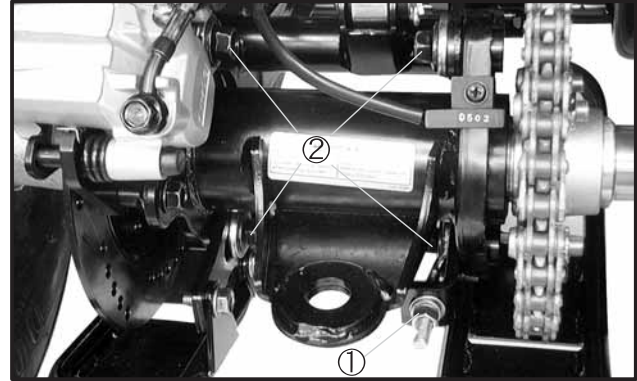
Inspect the drive chain while all tires are touching the ground. Check the slack at the position shown in the figure. The normal vertical deflection is approximately 30 mm (1.18 in). If the deflection exceeds 30 mm (1.18 in), adjust the chain slack.



A. 30 mm (1.18 in)

Drive chain slack adjustment

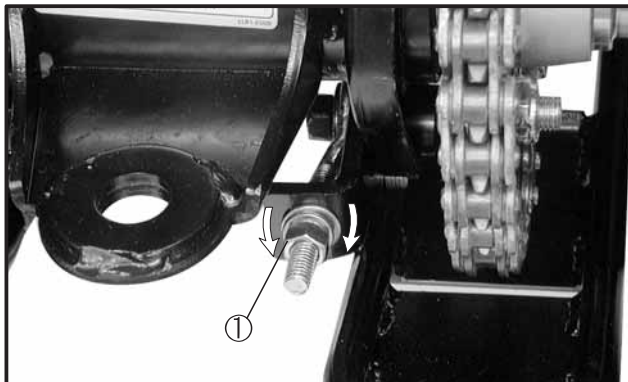
1. Loosen the hub stopper bolt locknut and then the hub stopper bolt.



1. Hub stopper nut 2. Axle holding bolt x 4

2. Loosen the upper and lower axle holding bolts.

3. Turn the adjusting nut.



1. Adjust nut

CAUTION:

Too little of chain slack will overload the engine and other important parts. Keep the slack within the specified limit.

4. After adjusting, be sure to tighten the axle holding bolts.

Tightening torque:

Axle holding bolts (upper):

85 Nm (8.5 m-k_g, 61 ft-lb)

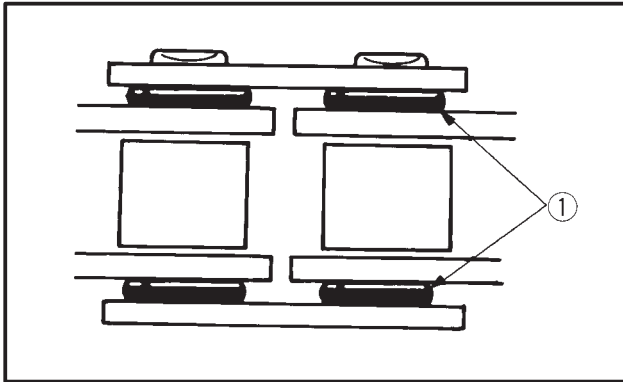
Axle holding bolts (lower):

60 Nm (6.0 m-k_g, 43 ft-lb)

5. Finger tighten the hub stopper bolt and tighten the hub stopper bolt locknut.

Drive chain cleaning and lubrication

The drive chain is equipped with rubber O-rings between the chain plates. Steam cleaning, high-pressure washes, and certain solvents can damage these O-rings. Use only kerosene to clean the drive chain. Wipe it dry, and thoroughly lubricate it with SAE 30~50 motor oil. Do not use any other lubricants on the drive chain. They may contain solvents that could damage the O-rings.



1. O-rings

Draining the V-belt compartment

If water leaks into V-belt compartment such as when the machine is drive in water, remove the drain screw on the bottom of compartment and drain the water. Be sure to drive slowly until the V-belt becomes dry. If slipping is noticed, ask a KYMCO dealer to inspect.



1. Drain bolt

Cable inspection and lubrication

WARNING

POTENTIAL HAZARD

Damaged control cables.

WHAT CAN HAPPEN

Corrosion can result when the outer covering of control cables becomes damaged.

Cables can also become frayed or kinked. Operation of controls could be restricted, which could cause an accident or injury.

HOW TO AVOID THE HAZARD

Inspect cables frequently. Replace damaged cables.

Lubricate the inner cables and the cable ends. If the cables do not operate smoothly, ask a KYMCO dealer to replace them.

Recommended lubricant:

**KYMCO chain and cable lube or
SAE 10W40 motor oil**

Brake lever lubrication

Lubricate the pivoting parts of the brake levers.

Recommended lubricant:

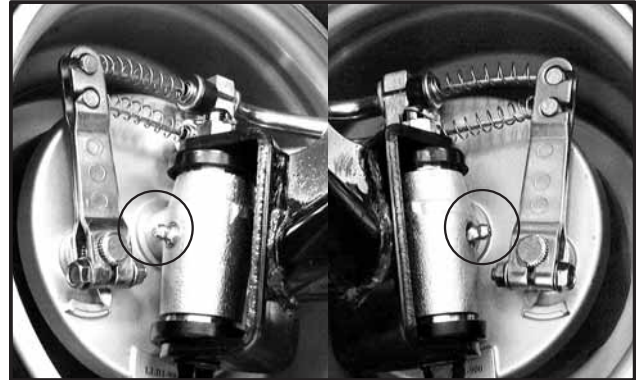
Lithium-soap-based grease
(All-purpose grease)

Knuckle shaft, lower arms and steering shaft lubrication

Lubricate the pivot points using a grease gun.

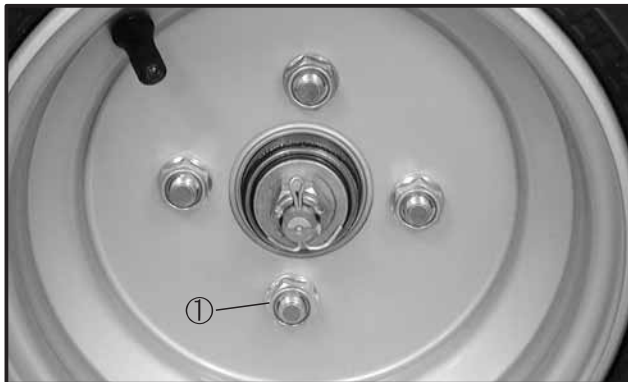
Recommended lubricant:

Lithium-soap-based grease



Wheel removal

1. Elevate the wheel by placing a suitable stand under the frame.
2. Remove the nuts from the wheel.
3. Remove the wheel assembly.



1. Safe nut

Wheel installation

When installing the wheel, reverse the removal procedure. Pay attention to the following.

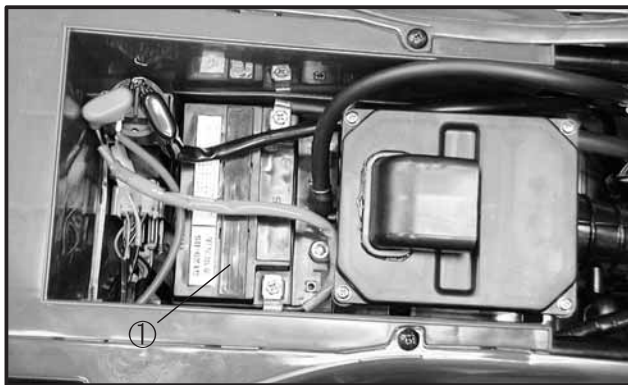
Wheel nut torque:

Front: 55 Nm (5.5 m-k_g, 40 ft-lb)

Rear: 55 Nm (5.5 m-k_g, 40 ft-lb)

Battery

- This model adopts the battery which needs no refilling of distilled water.
- When cleaning the terminal terminals, remove the screws attaching the battery cover under seat and then open the battery cover.
- When battery terminals are corroded, take out the battery for cleaning.
- After cleaning, apply a thin coat of grease or Vaseline to battery terminals and then install the battery.



1. Battery

CAUTION:

- Never open the closed-type battery electrolyte cap.
- If the motorcycle will not be used for a long time, the battery will discharge electricity by itself. Remove the battery and put it in a cool place after it is fully charged to prevent electricity leakage
- If the motorcycle will not be used for a long time, remove the negative (-) terminal.
- Do not smoke or allow flames or sparks near the battery while removing and installing it.
- Turn off the ignition switch before removal or installation. The negative (-) terminal shall be removed first and the positive (+) terminal shall be installed first.
- Tighten the loose terminal screws securely.



WARNING

POTENTIAL HAZARD

Failure to handle batteries or battery electrolyte carefully.

WHAT CAN HAPPEN

You could be poisoned. You could be severely burned by the sulfuric acid in battery electrolyte.

Batteries produce explosive gases.

HOW TO AVOID THE HAZARD

Avoid contact with skin, eyes or clothing.

Always shield eyes when working near batteries. Keep out of reach of children.

Antidote:

EXTERNAL: Flush with water.

INTERNAL: Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or vegetable oil. Get prompt medical attention.

EYES: Flush with for 15 minutes and get prompt medical attention. Keep batteries away from sparks, flames, cigarettes or other sources of ignition. Ventilate when charging or using a closed space.

Fuse replacement

1. The fuse case is located on the seat box of the machine.
2. If the fuse is blown, turn off the main switch and install a new fuse of the specified amperage. Then turn on the switches, if the fuse immediately blows again, consult a KYMCO dealer.



1. Main fuse

Specified fuse: 7A

WARNING

POTENTIAL HAZARD

Using an improper fuse.

WHAT CAN HAPPEN

An improper fuse can cause damage to the electrical system which could lead to a fire.

HOW TO AVOID THE HAZARD

Always use a fuse of the specified rating.
Never use a material in place of the proper fuse.

CAUTION:

To prevent accidental short-circuiting, turn off the main switch when checking or replacing a fuse.

Replacing the headlight bulb

If the headlight bulb burns out, replace the bulb as follows:

1. Remove bolts and the screws holding the headlight unit assembly to the headlight body.
2. Remove the bulb holder cover, remove the bulb holder screw and the defective bulb.



WARNING

POTENTIAL HAZARD

The headlight bulb is hot when it is on and immediately after it is turned off.

WHAT CAN HAPPEN

You can be burned, or a fire could start if the bulb touches something flammable.

HOW TO AVOID THE HAZARD

Wait for the bulb to cool before touching or removing it.

3. Put a new bulb into position and secure it in place with the bulb holder.
4. Install the bulb holder cover.

CAUTION:

Make sure the bulb holder cover is securely fitted over the bulb holder and seated against the reflector.

5. Install the headlight unit assembly.
Adjust the headlight beam if necessary.

Headlight beam adjustment

CAUTION:

It is advisable to have a KYMCO dealer make this adjustment.

Vertical adjustment:

To raise the beam, loosen the adjusting screw and pull the headlight assembly toward you.

To lower the beam, push it away from you. After adjusting, be sure to tighten the screw.



1. Adjusting screw

Troubleshooting

Although KYMCO machines receive a rigid inspection before shipment from the factory, trouble may occur during operation. Any systems can cause poor starting and loss of power. The troubleshooting chart describes a quick, easy procedure for making checks. If your machine requires any repair, take it to a KYMCO dealer.

The skilled technicians at a KYMCO dealership have the tools, experience, and know-how to properly service your machine. Imitation parts may look like KYMCO parts, but they are often inferior. Consequently, they have a shorter service life and can lead to expensive repair bills.



WARNING

POTENTIAL HAZARD

Checking the fuel system while smoking or near an open flame.

WHAT CAN HAPPEN

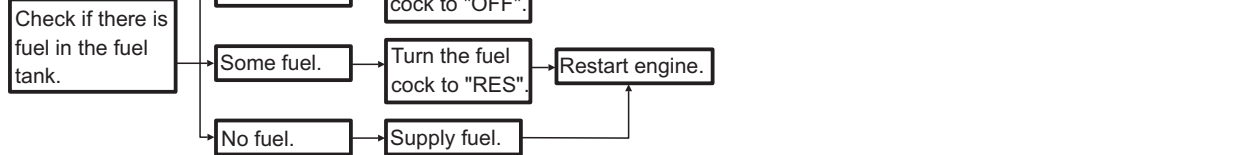
Fuel can ignite or explode, causing severe injury or property damage.

HOW TO AVOID THE HAZARD

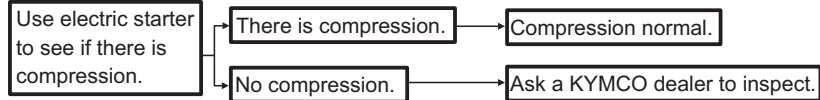
Do not smoke when checking the fuel system. Make sure there are no open flames or sparks in the area, including pilot lights from water heaters or furnaces.

Troubleshooting chart

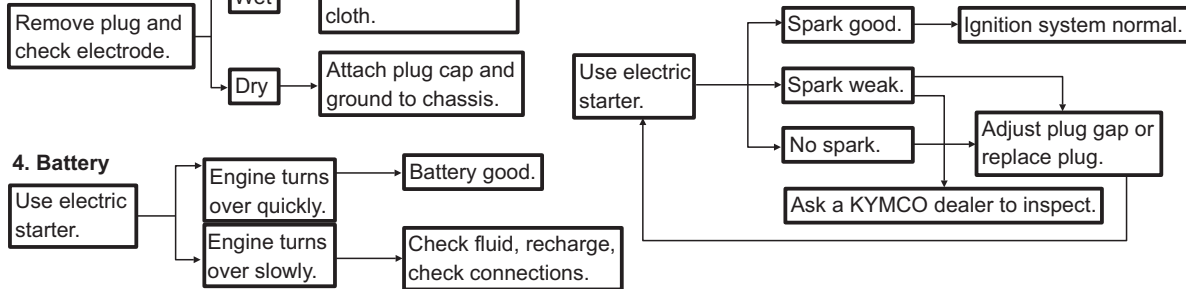
1. Fuel



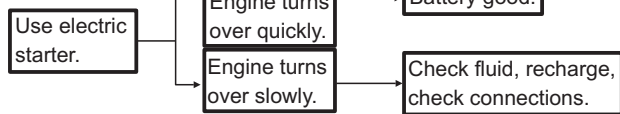
2. Compression



3. Ignition



4. Battery



CLEANING AND STORAGE

A. CLEANING

Frequent, thorough cleaning of your machine will not only enhance its appearance but will improve its general performance and extend the useful life of many components.

1. Before cleaning the machine:
 - A. Block off the end of the exhaust pipe to prevent water entry. A plastic bag and strong rubber band may be used.
 - B. Make sure the spark plug and all filler caps are properly installed.
2. If the engine case is excessively greasy, apply degreaser with a paint brush. Do not apply degreaser to the chain, sprockets or wheel axles.
3. Rinse the dirt and degreaser off with a garden hose. Use only enough pressure to do the job.

CAUTION:

Excessive water pressure may cause water seepage and deterioration of wheel bearings, brakes, transmission seals and electrical devices. Many expensive repair bills have resulted from improper high pressure detergent applications such as those available in coin-operated car washers.

4. Once the majority of the dirt has been hosed off, wash all surfaces with warm water and mild, detergent-type soap. An old toothbrush or bottle brush is handy for hard-to-get-at places.
5. Rinse the machine off immediately with clean water and dry all surfaces with a chamois, clean towel or soft absorbent cloth.
6. Dry the chain and lubricate it to prevent rust.

7. Clean the seat with a vinyl upholstery cleaner to keep the cover pliable and glossy.
 8. Automotive type wax may be applied to all painted and chrome plated surfaces. Avoid combination cleaner-waxes. Many contain abrasives which may mar the paint or protective finish.
- When finished, start the engine and let it



WARNING

POTENTIAL HAZARD

Operation with wet brakes after washing.

WHAT CAN HAPPEN

Wet brakes may have reduced stopping ability, increasing the chance of an accident.

HOW TO AVOID THE HAZARD

Test the brakes after washing. Apply the brakes several times at slow speeds to let friction dry out the linings.

B. STORAGE

Long term storage (60 days or more) of your machine will require some preventive procedures to guard against deterioration. After thoroughly cleaning the machine, prepare for storage as follows:

1. Fill the fuel tank with fresh fuel and add the specified amount of Fuel Stabilizer and Conditioner or an equivalent product.

Specified amount:

1 oz of stabilizer to each gallon of fuel
(Or 7.5 cc of stabilizer to each liter of fuel)

NOTE:

Use of fuel stabilizer and conditioner eliminates the need to drain the fuel system. Consult a KYMCO dealer if the fuel system needs to be drained instead.

2. Remove the spark plug, pour about one tablespoon of SAE 10W40 motor oil in the spark plug hole and reinstall the spark plug. Ground the spark plug wire and turn the engine over several times to coat the cylinder wall with oil.

3. Clean the drive chain thoroughly and lubricate it. (See page 110.)
4. Lubricate all control cables.
5. Block up the frame to raise all wheels off the ground.
6. Tie a plastic bag over the exhaust pipe outlet to prevent moisture from entering.
7. If storing in a humid or salt-air atmosphere, coat all exposed metal surfaces with a light film of oil. Do not apply oil to any rubber parts or the seat cover.
8. Remove the battery and charge it. Store it in a dry place and recharge it once a month. Do not store the battery in an excessively warm or cold place (less than 0 C (30°F) or more than 30 C (90°F))

NOTE:

Make any necessary repairs before storing the machine.

SPECIFICATIONS

Mode	MX'er 150	MX'er 125	MX'er 50
Dimension: Overall length Overall width Overall height Seat height Wheel base Minimum ground clearance Minimum turning radius	1,685 mm (66.3 in) 980 mm (38.6 in) 1,030mm (38.9 in) 700 mm (27.5 in) 1,120 mm (44.1in) 130 mm (5.1 in) 2,500 mm (98.4 in)		
Basic weight: With oil and full fuel tank	166 kg (365.2 lbs)		150 kg (330 lbs)
Engine: Type Cylinder arrangement: Displacement Bore x stroke Compression ratio Starting system Lubrication system:	Air cooled, 4-stroke, OHC Single cylinder 149.4cc 124 cc 62 x 49.5 mm 56.5 x 49.5 mm (2.44 x 1.95 in) (2.22 x 1.95 in) 9.7 : 1 9.2 : 1 Electric starter Forced pressure & wet sump		Air cooled, 2-stroke Single cylinder 49.4 cc 39 x 41.4 mm (1.53 x 1.63 in) 7.2 : 1 Electric & kick starter Separate type

Model	MX'er 150	MX'er 125	MX'er 50
Engine oil/transmission oil: Type Recommended engine Oil/transmission Oil Classification:	<p>API Service SE, SF, SG type or higher</p> <div> CAUTION: Be sure to use motor oils that do not contain anti-friction modifiers. Passenger car motor oils (often labeled "Energy Conserving") contain anti-friction additives which will cause clutch and/or starter clutch slippage, resulting in reduced component life and poor engine performance. </div>		
Quantity			
Engine oil:			
Periodic oil change			
Total amount	0.9 L (0.79 Imp qt, 0.95 US qt)		
2-stroke motor oil:	1.0 L (0.87 Imp qt, 1.05 US qt)		1.0 L (0.87 Imp qt, 1.05 US qt)
Transmission oil change:			over
	0.2 L (0.17 Imp qt, 0.21 US qt)		0.09 L (0.1 Imp qt, 0.13 US qt)

Model	MX'er 150	MX'er 125	MX'er 50
Air filter: For engine	Wet type element		
Fuel: Type Tank capacity Reserve amount	UNLEADED FUEL 8.1 L (7.12 Imp gal, 8.55 US gal) 1.0 L (0.88 Imp gal, 1.05 US gal)		
Carburetor: Type	PD		PB
Spark plug: Type Gap	DR8-EA NGK -Br9 HAS 0.6~0.7 mm (0.024~0.028 in)		
Clutch: Type	Dry, centrifugal automatic		
Bulb voltage, wattage*quantity: Headlight Position light Taillight Indicators direction light Indicator light	12V35/30W 12V5W 12V21W 12V10W 12V, 3.4W		

Model	MX'er 150	MX'er 125	MX'er 50
Brake: Front brake type Rear brake type	Drum brake Disk brake		
Suspension: Front Rear	Swing arm Swing axle		
Shock absorber: Front Rear	Coil spring/Oil damper Coil spring/Oil damper		
Electrical: Ignition system Generator system Battery type	C.D.I. C.D.I. Magneto 12V, 8AH 12V, 4AH		
Tire: Type Size: Front Rear	Tubeless AT20*7-8 AT22*10-8		

NOISE REGULATION

TAMPERING WITH NOISE CONTROL SYSTEM PROHIBITED:

Federal law prohibits the following acts or the causing thereof: (1) The removal or rendering inoperative by any person other than for purposes of maintenance, repair, or replacement of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use or (2) the use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

"AMONG THOSE ACTS PRESUMED TO CONSTITUTE TAMPERING ARE THE ACTS LISTED BELOW".

These acts include tampering with the following systems; i.e., Modification, removal, etc.

Exhaust system	Muffler Exhaust pipe Silencer
Intake system	Air cleaner case Air cleaner element Intake duct

MAINTENANCE RECORD

Copies of work orders and/or receipts for parts you purchase and install will be required to document maintenance done in accordance with the warranty. The chart below is printed only as a reminder to you that the maintenance work is required. It is not acceptable proof of maintenance work.

MAINTENANCE INTERVAL	DATE OF SERVICE	MILEAGE	SERVICING DEALER NAME AND ADDRESS	REMARKS
1Month				
3Months				
6Months				
12Months				
18Months				
24Months				
30Months				
36Months				
42Months				
48Months				
54Months				
60Months				



WARNING

Improper ATV use can result in SEVERE INJURY or DEATH.



**ALWAYS USE AN
APPROVED HELMET
AND PROTECTIVE
GEAR**



**NEVER USE
WITH DRUGS
OR ALCOHOL**

NEVER operate :

- Without proper training or instruction.
 - At speeds too fast for your skills or the conditions.
- Do not operate the vehicle after consuming ALCOHOL OR DRUGS.**

ALWAYS :

- Use proper riding techniques to avoid vehicle overturns on hills and rough terrain and in turns.
- For your safety, wear gear to include helmet gloves and foot protection.
- Gasoline is flammable shut off engine, avoid sparks and open flame when refueling.

READ OWNER'S MANUAL, FOLLOW ALL INSTRUCTIONS AND WARNINGS.